

AC geared motors
6 to 90 W

SPG AC Geared motors





Product portfolio

Drive components are our world.

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Overview

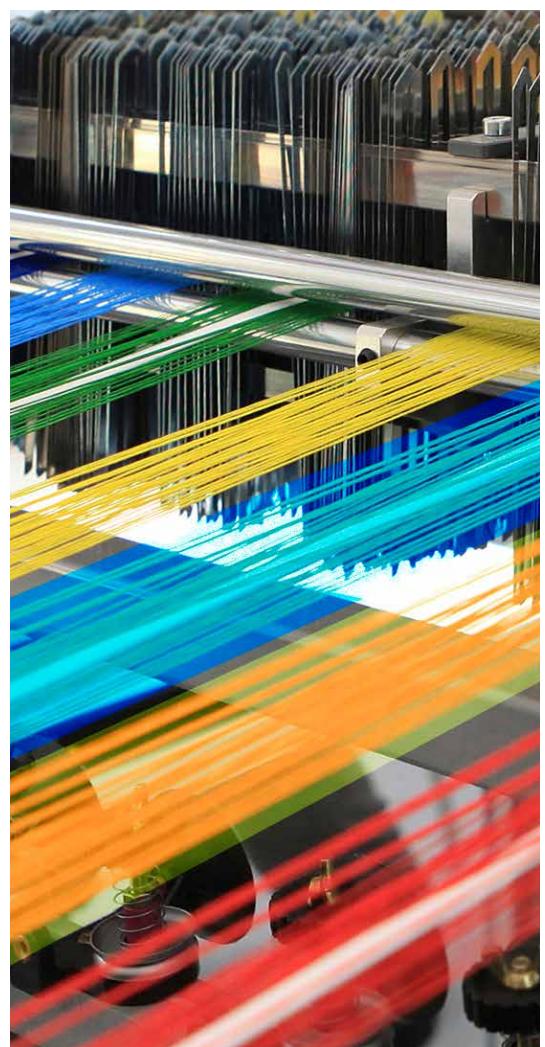
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The right solution for
every application.
Whether fast and
precise or robust and
resilient or flexible and
universal.



Product portfolio

**Just the right
selection for
your drive train.**

**We help you to build your machine –
with our competence in solutions, our
knowledge of the industry and our
comprehensive product portfolio.**

We will work with you to select exactly the right components to make sure that your machine functions efficiently, safely and intelligently in the production process. In this way, we guarantee that your drive train is optimally connected.

And we also offer you individual Service support, with maintenance services individually matched to your specific requirements. It's great when everything is so easy.

Electromagnetically actuated clutches and brakes**Shaft couplings****Linear Motion****Belt drives****AC geared motors****Locking assemblies****Torque limiters****Universal joints****Hydraulic and electromechanical brakes****Hydraulic components****Cooling systems**

Lenze
SELECTION

SPG AC geared motors

6 to 90 W

Motor design

The motors are AC motors for mains operation. All of the motors are 4-pole with a speed of 1500 rpm at 50 Hz, insulation class B and fitted with thermal protection (impedance current limitation at 6 W and thermal switch from 15 W). The models from 6 to 40 W are self-cooling. The geared motors with 60 and 90 W are cooled by an impellor.

Fields of application

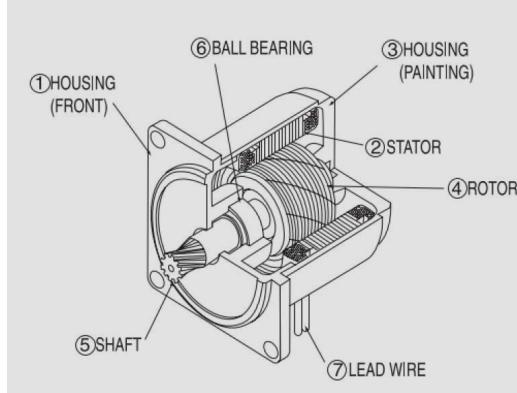
- Conveying belts
- Food processing machines
- Packaging machines
- Pumps
- Labelling machines
- Testing equipment

Gearbox design

The matching helical gearboxes are characterised by quality, durability (lubricated for life) and low-noise operation. Gearbox reductions from 3:1 to 200:1 are available. We also offer intermediate gearboxes with $i=10$ to realise even higher ratios. If the intermediate gearboxes are used, a ratio of 2000:1 can thus be realised.

THE BENEFITS AT A GLANCE

- Compact design and high power
- Low-noise operation
- Gearboxes are lubricated for life and guarantee freedom from maintenance and a long service life
- CE/UL/cUL/CCC certified
- Power range from 6 to 90 W and torque up to 29.4 Nm
- Speed range from 500 rpm to 0.7 rpm
- IP 65 protection on request



Load speed

The actual output speed under load is typically 10–20% lower than the nominal speed. Motor speed – torque characteristics provide information on the speed/torque behaviour and are available on request. Nominal output speeds are based on the motor's nominal speed of 1,500 rpm

Brake motors

Brake motors have a built-in electromagnetically actuated spring-applied brake. This reduces the overrun time and creates a static braking torque. The run-on is between 2–4 revolutions. The brake is suitable for up to 6 switching operations a minute.

Motor power [W]	Braking torque [Ncm]
6	0.5
15	1.0
25	2.0
40	4.0
60	5.0
90	5.0



SPG SG Series

Motors at a glance

	Geared motors, 3-phase Variable speed drive	Geared motors, 1-phase fixed speed	Geared brake motors 1-phase/3-phase
			
Supply voltage	230 V and 400 V	230 V	230 V 400 V on request
Output	25 to 90 W	6 to 90 W	6 to 90 W
Size	80 mm to 90 mm	60 mm to 90 mm	60 mm to 90 mm
Operating mode	S1 continuous operation	S1 continuous operation	6 and 15 W as well as 25 – 90 W/1-phase S2 intermittent operation 30 min 25 – 90 W/3-phase S1 continuous operation
Further information	IP 54 protection 3-phase motors provide a higher torque than single phase motors. The 400 V types are designed for direct connection to the 3-phase mains and are not suitable for use with an inverter.	These single-phase geared motors can be supplied with 1-phase 230V at 50 Hz for applications with a fixed speed. The geared motors are compact, quiet	Spring-applied brake as holding brake Built-in rectifier (supply voltage = motor voltage) The brake is released automatically when the motor is switched on, there is no friction. If the motor is switched off, the holding brake is once again applied. The overrun is approx. 2-4 revolutions, the brake is designed for up to 6 braking cycles a minute.

SPG S Series

Gearbox at a glance

Gearbox design ... A or B	Gearbox design ... C or CS	Gearbox design ... D	
			
Output	6 to 40 W	60 to 90 W	60 to 90 W
Gear reduction	3:1 - 180:1	3:1 - 200:1	50:1 - 200:1
Max. torque	up to 9,8 Nm	up to 19,6 Nm	up to 29,4 Nm
Flange mounting	Square flange with stud bolt Rectangular flange with lateral fastening (CS)	Square flange with stud bolt (C) Rectangular flange with lateral fastening (CS)	Square flange with stud bolt (D)
Further information			Reinforced gearboxes (HT gearboxes) are used for higher ratios.

Load speed

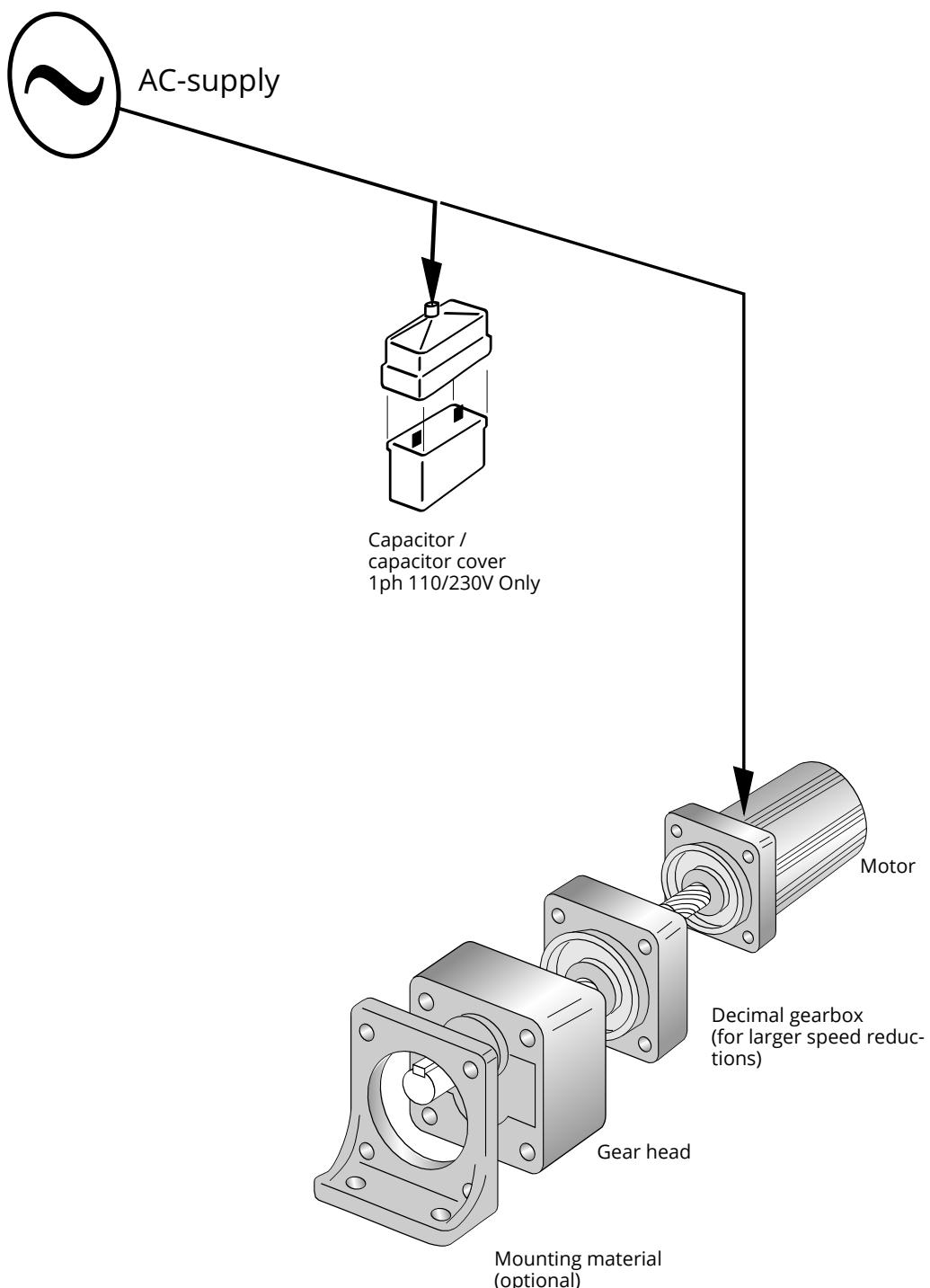
Intermediate gearboxes can be fitted for ratios > 180 or > 200. If an intermediate gearbox is used, pay attention to the maximum torque of the upstream gearbox.

Feet options

Optional side fixing feet are available for the square gearboxes



SPG System configuration



SPG

3-phase geared motors 400 V | 25 and 40 W

TECHNICAL FEATURES

- 3 x 400 V ± 10 % / 50 Hz
- S1 continuous operation
- IP 54 protection
- CE/UL/cUL/CCC approval
- Overtemperature protector switch as NC contact

Geared motors					Type designation			Gearbox	Intermediate gearbox	Motor	Geared motor	Weight	Total length	Output shaft Ø
Output	Output speed with-out load	Rated output speed	Rated output torque	Ratio**	Type-no.	Type-no.	Type-no.							
P _n	n ₂	n _{2N}	M ₂	i _{ges}	[Watt]	[1/min]	[1/min]	[Nm]						
25	500	442	0.4	3	S8KA3B1			SG8I25GS-TA			SPG SG 025 IGS 500.0 AT 1	1.8	149	10
	300	266	0.7	5	S8KA5B1						SPG SG 025 IGS 300.0 AT 1	1.8	149	10
	200	177	1.1	7.5	S8KA7.5B1						SPG SG 025 IGS 200.0 AT 1	1.8	149	10
	150	133	1.5	10	S8KA10B1						SPG SG 025 IGS 150.0 AT 1	1.8	149	10
	100	88	2.2	15	S8KA15B1						SPG SG 025 IGS 100.0 AT 1	1.8	149	10
	75	66	2.9	20	S8KA20B1						SPG SG 025 IGS 075.0 AT 1	1.8	159,5	10
	60	53	3.6	25	S8KA25B1						SPG SG 025 IGS 060.0 AT 1	1.8	159,5	10
	50	45	4.1	30	S8KA30B1						SPG SG 025 IGS 050.0 AT 1	1.8	159,5	10
	30	27	6.8	50	S8KA50B1						SPG SG 025 IGS 030.0 AT 1	1.8	159,5	10
	20	18	7.8	75	S8KA75B1*						SPG SG 025 IGS 020.0 AT 1	1.8	159,5	10
	15	13	7.8	100	S8KA100B1*						SPG SG 025 IGS 015.0 AT 1	1.8	159,5	10
	12.5	11	7.8	120	S8KA120B1*						SPG SG 025 IGS 012.5 AT 1	1.8	159,5	10
	10	8.8	7.8	150	S8KA150B1*						SPG SG 025 IGS 010.0 AT 1	1.8	159,5	10
	8.3	7.4	7.8	180	S8KA180B1*						SPG SG 025 IGS 008.3 AT 1	1.8	159,5	10
	7.5	6.6	7.8	200	S8KA20B1*	S8GX 10B					SPG SG 025 IGS 007.5 AT 1	2.2	191,5	10
	6.0	5.3	7.8	250	S8KA25B1*	S8GX 10B					SPG SG 025 IGS 006.0 AT 1	2.2	191,5	10
	5.0	4.4	7.8	300	S8KA30B1*	S8GX 10B					SPG SG 025 IGS 005.0 AT 1	2.2	191,5	10
	3.0	2.7	7.8	500	S8KA50B1*	S8GX 10B					SPG SG 025 IGS 003.0 AT 1	2.2	191,5	10
	2.0	1.8	7.8	750	S8KA75B1*	S8GX 10B					SPG SG 025 IGS 002.0 AT 1	2.2	191,5	10
	1.5	1.3	7.8	1000	S8KA100B1*	S8GX 10B					SPG SG 025 IGS 001.5 AT 1	2.2	191,5	10
	1.3	1.1	7.8	1200	S8KA120B1*	S8GX 10B					SPG SG 025 IGS 001.3 AT 1	2.2	191,5	10
	1.0	0.9	7.8	1500	S8KA150B1*	S8GX 10B					SPG SG 025 IGS 001.0 AT 1	2.2	191,5	10
	0.8	0.7	7.8	1800	S8KA180B1*	S8GX 10B					SPG SG 025 IGS 000.8 AT 1	2.2	191,5	10
40	500	450	0.8	3	S9KB3B1H			SG9I40GSH-TA			SPG SG 040 IGS 500.0 BT 1	3.4	179	12
	300	270	1.3	5	S9KB5B1H						SPG SG 040 IGS 300.0 BT 1	3.4	179	12
	200	180	2.0	7.5	S9KB7.5B1H						SPG SG 040 IGS 200.0 BT 1	3.4	179	12
	150	135	2.7	10	S9KB10B1H						SPG SG 040 IGS 150.0 BT 1	3.4	179	12
	100	90.0	4.0	15	S9KB15B1H						SPG SG 040 IGS 100.0 BT 1	3.4	179	12
	75	67.5	4.8	20	S9KB20B1H						SPG SG 040 IGS 075.0 BT 1	3.4	197	12
	60	54.0	6.0	25	S9KB25B1H						SPG SG 040 IGS 060.0 BT 1	3.4	197	12
	50	45.0	7.3	30	S9KB30B1H						SPG SG 040 IGS 050.0 BT 1	3.4	197	12
	30	27.0	9.8	50	S9KB50B1H						SPG SG 040 IGS 030.0 BT 1	3.4	197	12
	20	18.0	9.8	75	S9KB75B1H*						SPG SG 040 IGS 020.0 BT 1	3.4	197	12
	15	13.5	9.8	100	S9KB100B1H*						SPG SG 040 IGS 015.0 BT 1	3.4	197	12
	12.5	11.3	9.8	120	S9KB120B1H*						SPG SG 040 IGS 012.5 BT 1	3.4	197	12
	10	9.0	9.8	150	S9KB150B1H*						SPG SG 040 IGS 010.0 BT 1	3.4	197	12
	8.3	7.5	9.8	180	S9KB180B1H*						SPG SG 040 IGS 008.3 BT 1	3.4	234	12
	7.5	6.8	9.8	200	S9KB20B1H*	S9GX 10BH					SPG SG 040 IGS 007.5 BT 1	4.0	234	12
	6.0	5.4	9.8	250	S9KB25B1H*	S9GX 10BH					SPG SG 040 IGS 006.0 BT 1	4.0	234	12
	5.0	4.5	9.8	300	S9KB30B1H*	S9GX 10BH					SPG SG 040 IGS 005.0 BT 1	4.0	234	12
	3.0	2.7	9.8	500	S9KB50B1H*	S9GX 10BH					SPG SG 040 IGS 003.0 BT 1	4.0	234	12
	2.0	1.8	9.8	750	S9KB75B1H*	S9GX 10BH					SPG SG 040 IGS 002.0 BT 1	4.0	234	12
	1.5	1.4	9.8	1000	S9KB100B1H*	S9GX 10BH					SPG SG 040 IGS 001.5 BT 1	4.0	234	12
	1.3	1.1	9.8	1200	S9KB120B1H*	S9GX 10BH					SPG SG 040 IGS 001.3 BT 1	4.0	234	12
	1.0	0.9	9.8	1500	S9KB150B1H*	S9GX 10BH					SPG SG 040 IGS 001.0 BT 1	4.0	234	12
	0.8	0.8	9.8	1800	S9KB180B1H*	S9GX 10BH					SPG SG 040 IGS 000.8 BT 1	4.0	234	12

* Torque limiter recommended

SPG

3-phase geared motors 400 V | 60 and 90 W

TECHNICAL FEATURES

- 3 x 400 V ± 10 %/50 Hz
- S1 continuous operation
- IP 54 protection
- CE/UL/cUL/CCC approval

- Overtemperature protector switch as NC contact

Gearbox type

C: 60-90 W square flange

CS: 60-90 W rectangular flange

D: 60-90 W square flange, high torque

Geared motors							Type designation			Gearbox	Intermediate gearbox	Motor	Geared motor	Weight	Total length	Weight (HT) High Torque	Total length (HT)	Output shaft Ø	Output shaft Ø (HT)
Output	Output speed without load	Rated output speed	Rated output torque	Nominal torque (HT)	Ratio**	Type-no.	Type-no.	Type-no.	Order-no.										
P _n	[Watt]	n ₂	n _{2N}	M ₂	i _{ges}														
							Type-no.	Type-no.	Type-no.	SG9160GSH-TA	SG9160GSH-TA	SG9160GSH-TA	SG9160GSH-TA	SG9160GSH-TA	SG9160GSH-TA	SG9160GSH-TA	SG9160GSH-TA	SG9160GSH-TA	
60	500	442	1	-	3	S9KC3BH-#					SPG SG 060 IGS 500.0 C#T1	4.7	226.3	-	-	15	-		
	300	265	1.7	-	5	S9KC5BH-#					SPG SG 060 IGS 300.0 C#T1	4.7	226.3	-	-	15	-		
	200	177	2.6	-	7.5	S9KC7.5BH-#					SPG SG 060 IGS 200.0 C#T1	4.7	226.3	-	-	15	-		
	150	132	3.5	-	10	S9KC10BH-#					SPG SG 060 IGS 150.0 C#T1	4.7	226.3	-	-	15	-		
	100	88.3	4.8	-	15	S9KC15BH-#					SPG SG 060 IGS 100.0 C#T1	4.7	226.3	-	-	15	-		
	75	66.3	6.5	-	20	S9KC20BH-#					SPG SG 060 IGS 075.0 C#T1	4.7	226.3	-	-	15	-		
	60	53.0	8.1	-	25	S9KC25BH-#					SPG SG 060 IGS 060.0 C#T1	4.7	226.3	-	-	15	-		
	50	44.2	9.7	-	30	S9KC30BH-#					SPG SG 060 IGS 050.0 C#T1	4.7	226.3	-	-	15	-		
	30	26.5	15.1	16.2	50	S9K*50BH-#					SPG SG 060 IGS 030.0 *#T1	4.7	226.3	4.9	249.8	15	18		
	20	17.7	19.6	21.7	75	S9K*75BH-#*					SPG SG 060 IGS 020.0 *#T1	4.7	226.3	4.9	249.8	15	18		
	15	13.3	19.6	28.9	100	S9K*100BH-#*					SPG SG 060 IGS 015.0 *#T1	4.7	226.3	4.9	249.8	15	18		
	12.5	11.0	19.6	29.4	120	S9K*120BH-#*					SPG SG 060 IGS 012.5 *#T1	4.7	226.3	4.9	249.8	15	18		
	10	8.8	19.6	29.4	150	S9K*150BH-#*					SPG SG 060 IGS 010.0 *#T1	4.7	226.3	4.9	249.8	15	18		
	7.5	6.6	19.6	29.4	180	S9K*200BH-#*					SPG SG 060 IGS 008.3 *#T1	4.7	226.3	4.9	249.8	15	18		
	6.0	5.3	19.6	-	200	S9KC25BH-#*	S9GX 10BH-S				SPG SG 060 IGS 007.5 *#T1	5.4	266.3	-	-	15	-		
	5.0	4.4	19.6	-	250	S9KC30BH-#*	S9GX 10BH-S				SPG SG 060 IGS 006.0 C#T1	5.4	266.3	-	-	15	-		
	3.0	2.7	19.6	29.4	300	S9K*50BH-#*	S9GX 10BH-S				SPG SG 060 IGS 005.0 *#T1	5.4	266.3	5.6	-	15	-		
	2.0	1.8	19.6	29.4	500	S9K*75BH-#*	S9GX 10BH-S				SPG SG 060 IGS 003.0 *#T1	5.4	266.3	5.6	289.8	15	18		
	1.5	1.3	19.6	29.4	750	S9K*100BH-#*	S9GX 10BH-S				SPG SG 060 IGS 002.0 *#T1	5.4	266.3	5.6	289.8	15	18		
	1.3	1.1	19.6	29.4	1000	S9K*120BH-#*	S9GX 10BH-S				SPG SG 060 IGS 001.5 *#T1	5.4	266.3	5.6	289.8	15	18		
	1.0	0.9	19.6	29.4	1200	S9K*150BH-#*	S9GX 10BH-S				SPG SG 060 IGS 001.3 *#T1	5.4	266.3	5.6	289.8	15	18		
	0.8	0.7	19.6	29.4	1500	S9K*180BH-#*	S9GX 10BH-S				SPG SG 060 IGS 001.0 *#T1	5.4	266.3	5.6	289.8	15	18		
	0.7	0.7	19.6	29.4	1800	S9K*200BH-#*	S9GX 10BH-S				SPG SG 060 IGS 000.8 *#T1	5.4	266.3	5.6	289.8	15	18		
90	500	417	1.7	-	3	S9KC3BH-#				SG9I90GSH-TA	SPG SG 090 IGS 006.0 C#T1	4.7	241.3	-	-	15	-		
	300	250	2.9	-	5	S9KC5BH-#					SPG SG 090 IGS 005.0 C#T1	4.7	241.3	-	-	15	-		
	200	167	4.4	-	7.5	S9KC7.5BH-#					SPG SG 090 IGS 003.0 C#T1	4.7	241.3	-	-	15	-		
	150	125	5.9	-	10	S9KC10BH-#					SPG SG 090 IGS 002.0 C#T1	4.7	241.3	-	-	15	-		
	100	83	8.0	-	15	S9KC15BH-#					SPG SG 090 IGS 001.5 C#T1	4.7	241.3	-	-	15	-		
	75	63	10.7	-	20	S9KC20BH-#					SPG SG 090 IGS 001.3 C#T1	4.7	241.3	-	-	15	-		
	60	50	12.1	-	25	S9KC25BH-#					SPG SG 090 IGS 001.0 C#T1	4.7	241.3	-	-	15	-		
	50	42	14.6	-	30	S9KC30BH-#					SPG SG 090 IGS 000.8 C#T1	4.7	241.3	-	-	15	-		
	30	25	19.6	-	50	S9KC50BH-#					SPG SG 090 IGS 000.7 C#T1	4.7	241.3	-	-	15	-		
	20	17	19.6	-	75	S9KC75BH-#*					SPG SG 090 IGS 020.0 C#T1	4.7	241.3	-	-	15	-		
	15	13	19.6	-	100	S9KC100BH-#*					SPG SG 090 IGS 015.0 C#T1	4.7	241.3	-	-	15	-		
	12.5	10	19.6	-	120	S9KC120BH-#*					SPG SG 090 IGS 012.5 C#T1	4.7	241.3	-	-	15	-		
	10	8.3	19.6	-	150	S9KC150BH-#*					SPG SG 090 IGS 010.0 C#T1	4.7	241.3	-	-	15	-		
	7.5	6.3	19.6	-	180	S9KC200BH-#*					SPG SG 090 IGS 007.5 C#T1	4.7	241.3	-	-	15	-		
	6.0	5.0	19.6	-	200	S9KC25BH-#*	S9GX 10BH-S				SPG SG 090 IGS 006.0 C#T1	5.4	281.3	-	-	15	-		
	5.0	4.2	19.6	-	250	S9KC30BH-#*	S9GX 10BH-S				SPG SG 090 IGS 005.0 C#T1	5.4	281.3	-	-	15	-		
	3.0	2.5	19.6	-	300	S9KC50BH-#*	S9GX 10BH-S				SPG SG 090 IGS 003.0 C#T1	5.4	281.3	-	-	15	-		
	2.0	1.7	19.6	-	500	S9KC75BH-#*	S9GX 10BH-S				SPG SG 090 IGS 002.0 C#T1	5.4	281.3	-	-	15	-		
	1.5	1.3	19.6	-	750	S9KC100BH-#*	S9GX 10BH-S				SPG SG 090 IGS 001.5 C#T1	5.4	281.3	-	-	15	-		
	1.3	1.0	19.6	-	1000	S9KC120BH-#*	S9GX 10BH-S				SPG SG 090 IGS 001.3 C#T1	5.4	281.3	-	-	15	-		
	1.0	0.8	19.6	-	1200	S9KC150BH-#*	S9GX 10BH-S				SPG SG 090 IGS 001.0 C#T1	5.4	281.3	-	-	15	-		
	0.8	0.7	19.6	-	1500	S9KC180BH-#*	S9GX 10BH-S				SPG SG 090 IGS 000.8 C#T1	5.4	281.3	-	-	15	-		
	0.7	0.6	19.6	-	1800	S9KC200BH-#*	S9GX 10BH-S				SPG SG 090 IGS 000.7 C#T1	5.4	281.3	-	-	15	-		

* Torque limiter recommended

SPG

3-phase geared motors 230 V | 25 and 40 W

TECHNICAL FEATURES

- 3 x 230 V ± 10 %/50 Hz
- S1 continuous operation
- IP 54 protection
- Overtemperature protector switch as NC contact
- CE/UL/cUL/CCC approval

Geared motors					Type designation			Gearbox	Intermediate gearbox	Motor	Geared motor	Weight	Total length	Output shaft Ø
Output	Output speed with-out load	Rated output speed	Rated output torque	Ratio**	Type-no.	Type-no.	Type-no.							
P _n	n ₂	n _{2N}	M ₂	i _{ges}										
[Watt]	[1/min]	[1/min]	[Nm]											
25	500	440	0.5	3	S8KA3B1			SG8I25GT-TA			SPG SG 025 IGT 500.0 AT 1	1.8	149	10
	300	264	0.8	5	S8KA5B1						SPG SG 025 IGT 300.0 AT 1	1.8	149	10
	200	176	1.2	7.5	S8KA7.5B1						SPG SG 025 IGT 200.0 AT 1	1.8	149	10
	150	132	1.5	10	S8KA10B1						SPG SG 025 IGT 150.0 AT 1	1.8	149	10
	100	88	2.3	15	S8KA15B1						SPG SG 025 IGT 100.0 AT 1	1.8	149	10
	75	66	3.1	20	S8KA20B1						SPG SG 025 IGT 075.0 AT 1	1.8	159.5	10
	60	53	3.8	25	S8KA25B1						SPG SG 025 IGT 060.0 AT 1	1.8	159.5	10
	50	44	4.3	30	S8KA30B1						SPG SG 025 IGT 050.0 AT 1	1.8	159.5	10
	30	26	7.1	50	S8KA50B1						SPG SG 025 IGT 030.0 AT 1	1.8	159.5	10
	20	18	7.8	75	S8KA75B1*						SPG SG 025 IGT 020.0 AT 1	1.8	159.5	10
	15	13	7.8	100	S8KA100B1*						SPG SG 025 IGT 015.0 AT 1	1.8	159.5	10
	12.5	11	7.8	120	S8KA120B1*						SPG SG 025 IGT 012.5 AT 1	1.8	159.5	10
	10	8.8	7.8	150	S8KA150B1*						SPG SG 025 IGT 010.0 AT 1	1.8	159.5	10
	8.3	7.3	7.8	180	S8KA180B1*						SPG SG 025 IGT 008.3 AT 1	1.8	159.5	10
	7.5	6.6	7.8	200	S8KA20B1*	S8GX 10B					SPG SG 025 IGT 007.5 AT 1	2.2	191.5	10
	6.0	5.3	7.8	250	S8KA25B1*	S8GX 10B					SPG SG 025 IGT 006.0 AT 1	2.2	191.5	10
	5.0	4.4	7.8	300	S8KA30B1*	S8GX 10B					SPG SG 025 IGT 005.0 AT 1	2.2	191.5	10
	3.0	2.6	7.8	500	S8KA50B1*	S8GX 10B					SPG SG 025 IGT 003.0 AT 1	2.2	191.5	10
	2.0	1.8	7.8	750	S8KA75B1*	S8GX 10B					SPG SG 025 IGT 002.0 AT 1	2.2	191.5	10
	1.5	1.3	7.8	1000	S8KA100B1*	S8GX 10B					SPG SG 025 IGT 001.5 AT 1	2.2	191.5	10
	1.3	1.1	7.8	1200	S8KA120B1*	S8GX 10B					SPG SG 025 IGT 001.3 AT 1	2.2	191.5	10
	1.0	0.9	7.8	1500	S8KA150B1*	S8GX 10B					SPG SG 025 IGT 001.0 AT 1	2.2	191.5	10
	0.8	0.7	7.8	1800	S8KA180B1*	S8GX 10B					SPG SG 025 IGT 000.8 AT 1	2.2	191.5	10
40	500	477	0.8	3	S9KB3B1H			SG9I40GTH-TA			SPG SG 040 IGT 500.0 BT 1	3.4	179	12
	300	277	1.3	5	S9KB5B1H						SPG SG 040 IGT 300.0 BT 1	3.4	179	12
	200	179	2.0	7.5	S9KB7.5B1H						SPG SG 040 IGT 200.0 BT 1	3.4	179	12
	150	134	2.7	10	S9KB10B1H						SPG SG 040 IGT 150.0 BT 1	3.4	179	12
	100	89.3	4.0	15	S9KB15B1H						SPG SG 040 IGT 100.0 BT 1	3.4	179	12
	75	67.0	4.8	20	S9KB20B1H						SPG SG 040 IGT 075.0 BT 1	3.4	197	12
	60	53.6	6.0	25	S9KB25B1H						SPG SG 040 IGT 060.0 BT 1	3.4	197	12
	50	44.7	7.3	30	S9KB30B1H						SPG SG 040 IGT 050.0 BT 1	3.4	197	12
	30	26.8	9.8	50	S9KB50B1H						SPG SG 040 IGT 030.0 BT 1	3.4	197	12
	20	17.9	9.8	75	S9KB75B1H*						SPG SG 040 IGT 020.0 BT 1	3.4	197	12
	15	13.4	9.8	100	S9KB100B1H*						SPG SG 040 IGT 015.0 BT 1	3.4	197	12
	12.5	11.2	9.8	120	S9KB120B1H*						SPG SG 040 IGT 012.5 BT 1	3.4	197	12
	10	8.9	9.8	150	S9KB150B1H*						SPG SG 040 IGT 010.0 BT 1	3.4	197	12
	8.3	7.4	9.8	180	S9KB180B1H*						SPG SG 040 IGT 008.3 BT 1	3.4	197	12
	7.5	6.7	9.8	200	S9KB20B1H*	S9GX 10BH					SPG SG 040 IGT 007.5 BT 1	4.0	234	12
	6.0	5.4	9.8	250	S9KB25B1H*	S9GX 10BH					SPG SG 040 IGT 006.0 BT 1	4.0	234	12
	5.0	4.5	9.8	300	S9KB30B1H*	S9GX 10BH					SPG SG 040 IGT 005.0 BT 1	4.0	234	12
	3.0	2.7	9.8	500	S9KB50B1H*	S9GX 10BH					SPG SG 040 IGT 003.0 BT 1	4.0	234	12
	2.0	1.8	9.8	750	S9KB75B1H*	S9GX 10BH					SPG SG 040 IGT 002.0 BT 1	4.0	234	12
	1.5	1.3	9.8	1000	S9KB100B1H*	S9GX 10BH					SPG SG 040 IGT 001.5 BT 1	4.0	234	12
	1.3	1.1	9.8	1200	S9KB120B1H*	S9GX 10BH					SPG SG 040 IGT 001.3 BT 1	4.0	234	12
	1.0	0.9	9.8	1500	S9KB150B1H*	S9GX 10BH					SPG SG 040 IGT 001.0 BT 1	4.0	234	12
	0.8	0.7	9.8	1800	S9KB180B1H*	S9GX 10BH					SPG SG 040 IGT 000.8 BT 1	4.0	234	12

* Torque limiter recommended

SPG

3-phase geared motors 230 V | 60 and 90 W

TECHNICAL FEATURES

- 3 x 230 V ± 10 %/50 Hz
- S1 continuous operation
- IP 54 protection
- Overtemperature protector switch as NC contact
- CE/UL/cUL/CCC approval

Gearbox type

C: 60-90 W square flange

CS: 60-90 W rectangular flange

D: 60-90 W square flange, high torque

Geared motors							Type designation			Gearbox	Intermediate gearbox	Motor	Geared motor	Weight	Total length	Weight (HT) High Torque	Total length (HT)	Output shaft Ø	Output shaft Ø (HT)
Output	Output speed without load	Rated output speed	Rated output torque	Nominal torque (HT)	Ratio**	Type-no.	Type-no.	Type-no.	Order-no.										
P _n	n ₂	n _{2N}	M ₂	M ₂	i _{ges}														
[Watt]	[1/min]	[1/min]	[Nm]	[Nm]						SG9I60GTH-TA	SG9I60GTH-TA	SG9I60GTH-TA	SG9I60GTH-TA	SG9I60GTH-TA	SG9I60GTH-TA	SG9I60GTH-TA	SG9I60GTH-TA	SG9I60GTH-TA	SG9I60GTH-TA
60	300	442	1.0		3	S9KC3BH-#													
	300	265	1.7	-	5	S9KC5BH-#													
	200	177	2.6	-	7.5	S9KC7.5BH-#													
	150	132	3.5	-	10	S9KC10BH-#													
	100	88.3	4.8	-	15	S9KC15BH-#													
	75	66.3	6.5	-	20	S9KC20BH-#													
	60	53.0	8.1	-	25	S9KC25BH-#													
	50	44.2	9.7	-	30	S9KC30BH-#													
	30	26.5	15.1	16.2	50	S9K*50BH-#													
	20	17.7	19.6	21.7	75	S9K*75BH-#*													
	15	13.3	19.6	28.9	100	S9K*100BH-#*													
	12.5	11.0	19.6	29.4	120	S9K*120BH-#*													
	10	8.8	19.6	29.4	150	S9K*150BH-#*													
	7.5	6.6	19.6	29.4	180	S9K*200BH-#*													
	6.0	5.3	19.6	-	200	S9KC25BH-#*	S9GX 10BH-S												
	5.0	4.4	19.6	-	250	S9KC30BH-#*	S9GX 10BH-S												
	3.0	2.7	19.6	29.4	300	S9K*50BHv-#*	S9GX 10BH-S												
	2.0	1.8	19.6	29.4	500	S9K*75BH-#*	S9GX 10BH-S												
	1.5	1.3	19.6	29.4	750	S9K*100BH-#*	S9GX 10BH-S												
	1.3	1.1	19.6	29.4	1000	S9K*120BH-#*	S9GX 10BH-S												
	1.0	0.9	19.6	29.4	1200	S9K*150BH-#*	S9GX 10BH-S												
	0.8	0.7	19.6	29.4	1500	S9K*180BH-#*	S9GX 10BH-S												
	0.7	0.7	19.6	29.4	1800	S9K*200BH-#*	S9GX 10BH-S												
90	500	417	1.7	-	3	S9KC3BH-#				SG9I90GTH-TA									
	300	250	2.9	-	5	S9KC5BH-#													
	200	167	4.4	-	7.5	S9KC7.5BH-#													
	150	125	5.9	-	10	S9KC10BH-#													
	100	83	8.0	-	15	S9KC15BH-#													
	75	63	10.7	-	20	S9KC20BH-#													
	60	50	12.1	-	25	S9KC25BH-#													
	50	42	14.6	-	30	S9KC30BH-#													
	30	25	19.6	-	50	S9KC50BH-#													
	20	17	19.6	-	75	S9KC75BH-#*													
	15	13	19.6	-	100	S9KC100BH-#*													
	12.5	10	19.6	-	120	S9KC120BH-#*													
	10	8.3	19.6	-	150	S9KC150BH-#*													
	7.5	6.3	19.6	-	180	S9KC200BH-#*													
	6.0	5.0	19.6	-	200	S9KC25BHv-#*	S9GX 10BH-S												
	5.0	4.2	19.6	-	250	S9KC30BH-#*	S9GX 10BH-S												
	3.0	2.5	19.6	-	300	S9KC50BH-#*	S9GX 10BH-S												
	2.0	1.7	19.6	-	500	S9KC75BH-#*	S9GX 10BH-S												
	1.5	1.3	19.6	-	750	S9KC100BH-#*	S9GX 10BH-S												
	1.3	1.0	19.6	-	1000	S9KC120BH-#*	S9GX 10BH-S												
	1.0	0.8	19.6	-	1200	S9KC150BH-#*	S9GX 10BH-S												
	0.8	0.7	19.6	-	1500	S9KC180BH-#*	S9GX 10BH-S												
	0.7	0.6	19.6	-	1800	S9KC200BH-#*	S9GX 10BH-S												

* Torque limiter recommended

SPG

1-phase geared motors 230 V | 6 and 15 W

TECHNICAL FEATURES

- 230 V ± 10 %/50 Hz
- S1 continuous operation
- IP 23 protection
- incl. motor capacitors 0,6/1,0 µF
- 15 W motors with overtemperature protector switch as NC contact
- CE/UL/cUL/CCC approval

Geared motors					Type designation			Gearbox	Intermediate gearbox	Motor	Geared motor	Weight	Total length	Output shaft Ø
Output	Output speed without load	Rated output speed	Rated output torque	Ratio**	Type-no.	Type-no.	Type-no.							
P _n	n ₂	n _{2N}	M ₂	i _{ges}										
[Watt]	[1/min]	[1/min]	[Nm]					SG6I6GB-TA	SG6I6GB-TA	SG6I6GB-TA	SG6I6GB-TA	SG6I6GB-TA	SG6I6GB-TA	SG6I6GB-TA
6	500	417	0.1	3	S6DA3B1									
	300	250	0.2	5	S6DA5B1									
	200	167	0.3	7.5	S6DA7.5B1									
	150	125	0.4	10	S6DA10B1									
	100	83	0.6	15	S6DA15B1									
	75	63	0.7	20	S6DA20B1									
	60	50	0.9	25	S6DA25B1									
	50	42	1.0	30	S6DA30B1									
	30	25	1.7	50	S6DA50B1									
	20	17	2.3	75	S6DA75B1*									
	15	13	2.5	100	S6DA100B1*									
	12.5	10	2.5	120	S6DA120B1*									
	10	8.3	2.5	150	S6DA150B1*									
	8.3	6.9	2.5	180	S6DA180B1*									
	7.5	6.3	2.5	200	S6DA20B1*	S6GX10XB								
	6.0	5.0	2.5	250	S6DA25B1*	S6GX10XB								
	5.0	4.2	2.5	300	S6DA30B1*	S6GX10XB								
	3.0	2.5	2.5	500	S6DA50B1*	S6GX10XB								
	2.0	1.7	2.5	750	S6DA75B1*	S6GX10XB								
	1.5	1.3	2.5	1000	S6DA100B1*	S6GX10XB								
	1.3	1.0	2.5	1200	S6DA120B1*	S6GX10XB								
	1.0	0.8	2.5	1500	S6DA150B1*	S6GX10XB								
	0.8	0.7	2.5	1800	S6DA180B1*	S6GX10XB								
15	500	417	0.3	3	S7KA3B1			SG7I15GB-TA	SG7I15GB-TA	SG7I15GB-TA	SG7I15GB-TA	SG7I15GB-TA	SG7I15GB-TA	SG7I15GB-TA
	300	250	0.5	5	S7KA5B1									
	200	167	0.8	7.5	S7KA7.5B1									
	150	125	1.0	10	S7KA10B1									
	100	83	1.3	15	S7KA15B1									
	75	63	1.8	20	S7KA20B1									
	60	50	2.2	25	S7KA25B1									
	50	42	2.5	30	S7KA30B1									
	30	25	4.1	50	S7KA50B1									
	20	17	4.9	75	S7KA75B1*									
	15	13	4.9	100	S7KA100B1*									
	12.5	10	4.9	120	S7KA120B1*									
	10	8.3	4.9	150	S7KA150B1*									
	8.3	6.9	4.9	180	S7KA180B1*									
	7.5	6.3	4.9	200	S7KA20B1*	S7GX10XB								
	6.0	5.0	4.9	250	S7KA25B1*	S7GX10XB								
	5.0	4.2	4.9	300	S7KA30B1*	S7GX10XB								
	3.0	2.5	4.9	500	S7KA50B1*	S7GX10XB								
	2.0	1.7	4.9	750	S7KA75B1*	S7GX10XB								
	1.5	1.3	4.9	1000	S7KA100B1*	S7GX10XB								
	1.3	1.0	4.9	1200	S7KA120B1*	S7GX10XB								
	1.0	0.8	4.9	1500	S7KA150B1*	S7GX10XB								
	0.8	0.7	4.9	1800	S7KA180B1*	S7GX10XB								

* Torque limiter recommended

SPG

1-phase geared motors 230 V | 25 and 40 W

TECHNICAL FEATURES

- 230 V ± 10 %/50 Hz
- S1 continuous operation
- IP 54 protection
- incl. motor capacitors 1,5/2,3 µF
- Overtemperature protector switch as NC contact
- CE/UL/cUL/CCC approval

Geared motors					Type designation			Gearbox	Intermediate gearbox	Motor	Geared motor	Weight	Total length	Output shaft Ø
Output	Output speed without load	Rated output speed	Rated output torque	Ratio**	Type-no.	Type-no.	Type-no.							
P _n	n ₂	n _{2N}	M ₂	i _{ges}										
[Watt]	[1/min]	[1/min]	[Nm]											
25	500	417	0.5	3	S8KA3B1	-	-	SG8I25GB-TA	SPG SG 025 IGB 500.0 AT 1	1.8	149	10		
	300	250	0.8	5	S8KA5B1	-	-							
	200	167	1.2	7.5	S8KA7.5B1	-	-							
	150	125	1.5	10	S8KA10B1	-	-							
	100	83	2.3	15	S8KA15B1	-	-							
	75	63	3.1	20	S8KA20B1	-	-							
	60	50	3.8	25	S8KA25B1	-	-							
	50	42	4.3	30	S8KA30B1	-	-							
	30	25	7.1	50	S8KA50B1	-	-							
	20	17	7.8	75	S8KA75B1*	-	-							
	15	13	7.8	100	S8KA100B1*	-	-							
	12.5	10	7.8	120	S8KA120B1*	-	-							
	10	8.3	7.8	150	S8KA150B1*	-	-							
	8.3	6.9	7.8	180	S8KA180B1*	S8GX 10B	-							
	7.5	6.3	7.8	200	S8KA20B1*	S8GX 10B	-							
	6.0	5.0	7.8	250	S8KA25B1*	S8GX 10B	-							
	5.0	4.2	7.8	300	S8KA30B1*	S8GX 10B	-							
	3.0	2.5	7.8	500	S8KA50B1*	S8GX 10B	-							
	2.0	1.7	7.8	750	S8KA75B1*	S8GX 10B	-							
	1.5	1.3	7.8	1000	S8KA100B1*	S8GX 10B	-							
	1.3	1.0	7.8	1200	S8KA120B1*	S8GX 10B	-							
	1.0	0.8	7.8	1500	S8KA150B1*	S8GX 10B	-							
	0.8	0.7	7.8	1800	S8KA180B1*	S8GX 10B	-							
40	500	425	0.8	3	S9KB3B1H	-	-	SG9I40GBH-TA	SPG SG 040 IGB 500.0 BT 1	3.4	179	12		
	300	255	1.3	5	S9KB5B1H	-	-							
	200	170	2.0	7.5	S9KB7.5B1H	-	-							
	150	128	2.7	10	S9KB10B1H	-	-							
	100	85	4.0	15	S9KB15B1H	-	-							
	75	64	4.8	20	S9KB20B1H	-	-							
	60	51	6.0	25	S9KB25B1H	-	-							
	50	43	7.3	30	S9KB30B1H	-	-							
	30	26	9.8	50	S9KB50B1H	-	-							
	20	17	9.8	75	S9KB75B1H*	-	-							
	15	13	9.8	100	S9KB100B1H*	-	-							
	12.5	11	9.8	120	S9KB120B1H*	-	-							
	10	8.5	9.8	150	S9KB150B1H*	-	-							
	8.3	7.1	9.8	180	S9KB180B1H*	-	-							
	7.5	6.4	9.8	200	S9KB20B1H*	S9GX 10BH	-							
	6.0	5.1	9.8	250	S9KB25B1H*	S9GX 10BH	-							
	5.0	4.3	9.8	300	S9KB30B1H*	S9GX 10BH	-							
	3.0	2.6	9.8	500	S9KB50B1H*	S9GX 10BH	-							
	2.0	1.7	9.8	750	S9KB75B1H*	S9GX 10BH	-							
	1.5	1.3	9.8	1000	S9KB100B1H*	S9GX 10BH	-							
	1.3	1.1	9.8	1200	S9KB120B1H*	S9GX 10BH	-							
	1.0	0.9	9.8	1500	S9KB150B1H*	S9GX 10BH	-							
	0.8	0.7	9.8	1800	S9KB180B1H*	S9GX 10BH	-							

* Torque limiter recommended

SPG

1-phase geared motors 230 V | 60 and 90 W

TECHNICAL FEATURES

- 230 V ± 10 %/50 Hz
- S1 continuous operation
- IP 54 protection
- incl. motor capacitors 4,0/6,0 µF
- Overtemperature protector switch as NC contact
- CE/UL/cUL/CCC approval

Gearbox type

C: 60-90 W square flange

CS: 60-90 W rectangular flange

D: 60-90 W square flange, high torque

Getriebemotoren							Typenbezeichnung			Geared motor	Weight	Total length	Weight (HT) High Torque	Total length (HT)	Output shaft Ø	Output shaft Ø (HT)
Output	Output speed without load	Rated output speed	Rated output torque	Nominal torque (HT)	Ratio**	Gearbox	Intermediate gearbox	Motor								
P _n	n ₂	n _{2N}	M ₂	M ₂	i _{ges}	Type-no.	Type-no.	Type-no.								
[Watt]	[1/min]	[1/min]	[Nm]	[Nm]					SG9I60GBH-TA	Order-no.	kg	mm	mm	mm	mm	
60	500	408	1.2	-	3	S9KC3BH-#		-		SPG SG 060 IGB 500.0 C#T1	4.7	226.3	-	-	15	-
	300	260	1.9	-	5	S9KC5BH-#		-		SPG SG 060 IGB 300.0 C#T1	4.7	226.3	-	-	15	-
	200	173	2.9	-	7.5	S9KC7.5BH-#		-		SPG SG 060 IGB 200.0 C#T1	4.7	226.3	-	-	15	-
	150	130	3.9	-	10	S9KC10BH-#		-		SPG SG 060 IGB 150.0 C#T1	4.7	226.3	-	-	15	-
	100	87	5.3	-	15	S9KC15BH-#		-		SPG SG 060 IGB 100.0 C#T1	4.7	226.3	-	-	15	-
	75	65	7.1	-	20	S9KC20BH-#		-		SPG SG 060 IGB 075.0 C#T1	4.7	226.3	-	-	15	-
	60	52	8.1	-	25	S9KC25BH-#		-		SPG SG 060 IGB 060.0 C#T1	4.7	226.3	-	-	15	-
	50	43	9.7	-	30	S9KC30BH-#		-		SPG SG 060 IGB 050.0 C#T1	4.7	226.3	-	-	15	-
	30	26	16.1	16.2	50	S9K*50BH-#		-		SPG SG 060 IGB 030.0 *#T1	4.7	226.3	4.4	249.8	15	18
	20	17	19.6	21.2	75	S9K*75BH-#*		-		SPG SG 060 IGB 020.0 *#T1	4.7	226.3	4.4	249.8	15	18
	15	13	19.6	28.9	100	S9K*100BH-#*		-		SPG SG 060 IGB 015.0 *#T1	4.7	226.3	4.4	249.8	15	18
	12.5	11	19.6	29.4	120	S9K*120BH-#*		-		SPG SG 060 IGB 012.5 *#T1	4.7	226.3	4.4	249.8	15	18
	10	8.7	19.6	29.4	150	S9K*150BH-#*		-		SPG SG 060 IGB 010.0 *#T1	4.7	226.3	4.4	249.8	15	18
	7.5	6.5	19.6	29.4	180	S9K*200BH-#*		-		SPG SG 060 IGB 008.3 *#T1	4.7	226.3	4.4	249.8	15	18
	6.0	5.2	19.6	-	200	S9KC25BH-#*	S9GX 10BH-S	SPG SG 060 IGB 007.5 C#T1	5.4	266.3	-	-	15	-		
	5.0	4.3	19.6	-	250	S9KC30BH-#*	S9GX 10BH-S	SPG SG 060 IGB 006.0 C#T1	5.4	266.3	-	-	15	-		
	3.0	2.6	19.6	29.4	300	S9K*50BH-#*	S9GX 10BH-S	SPG SG 060 IGB 005.0 *#T1	5.4	266.3	5.1	-	15	-		
	2.0	1.7	19.6	29.4	500	S9K*75BH-#*	S9GX 10BH-S	SPG SG 060 IGB 003.0 *#T1	5.4	266.3	5.1	289.8	15	18		
	1.5	1.3	19.6	29.4	750	S9K*100BH-#*	S9GX 10BH-S	SPG SG 060 IGB 002.0 *#T1	5.4	266.3	5.1	289.8	15	18		
	1.3	1.1	19.6	29.4	1000	S9K*120BH-#*	S9GX 10BH-S	SPG SG 060 IGB 001.5 *#T1	5.4	266.3	5.1	289.8	15	18		
	1.0	0.9	19.6	29.4	1200	S9K*150BH-#*	S9GX 10BH-S	SPG SG 060 IGB 001.3 *#T1	5.4	266.3	5.1	289.8	15	18		
	0.8	0.7	19.6	29.4	1500	S9K*180BH-#*	S9GX 10BH-S	SPG SG 060 IGB 001.0 *#T1	5.4	266.3	5.1	289.8	15	18		
	0.7	0.7	19.6	29.4	1800	S9K*200BH-#*	S9GX 10BH-S	SPG SG 060 IGB 000.8 *#T1	5.4	266.3	-	289.8	15	18		
90	500	417	1.7	-	3	S9KC3BH-#		-	SG9I90GBH-TA	SPG SG 090 IGB 006.0 C#T1	4.7	241.3	-	-	15	-
	300	250	2.9	-	5	S9KC5BH-#		-		SPG SG 090 IGB 005.0 C#T1	4.7	241.3	-	-	15	-
	200	167	4.4	-	7.5	S9KC7.5BH-#		-		SPG SG 090 IGB 003.0 C#T1	4.7	241.3	-	-	15	-
	150	125	5.9	-	10	S9KC10BH-#		-		SPG SG 090 IGB 002.0 C#T1	4.7	241.3	-	-	15	-
	100	83	8.0	-	15	S9KC15BH-#		-		SPG SG 090 IGB 001.5 C#T1	4.7	241.3	-	-	15	-
	75	63	10.7	-	20	S9KC20BH-#		-		SPG SG 090 IGB 001.3 C#T1	4.7	241.3	-	-	15	-
	60	50	12.1	-	25	S9KC25BH-#		-		SPG SG 090 IGB 001.0 C#T1	4.7	241.3	-	-	15	-
	50	42	14.6	-	30	S9KC30BH-#		-		SPG SG 090 IGB 000.8 C#T1	4.7	241.3	-	-	15	-
	30	25	19.6	-	50	S9KC50BH-#		-		SPG SG 090 IGB 000.7 C#T1	4.7	241.3	-	-	15	-
	20	17	19.6	-	75	S9KC75BH-#*		-		SPG SG 090 IGB 020.0 C#T1	4.7	241.3	-	-	15	-
	15	13	19.6	-	100	S9KC100BH-#*		-		SPG SG 090 IGB 015.0 C#T1	4.7	241.3	-	-	15	-
	12.5	10	19.6	-	120	S9KC120BH-#*		-		SPG SG 090 IGB 012.5 C#T1	4.7	241.3	-	-	15	-
	10	8.3	19.6	-	150	S9KC150BH-#*		-		SPG SG 090 IGB 010.0 C#T1	4.7	241.3	-	-	15	-
	7.5	6.3	19.6	-	180	S9KC200BH-#*		-		SPG SG 090 IGB 007.5 C#T1	4.7	241.3	-	-	15	-
	6.0	5.0	19.6	-	200	S9KC25BH-#*	S9GX 10BH-S	SPG SG 090 IGB 006.0 C#T1	5.4	281.3	-	-	15	-		
	5.0	4.2	19.6	-	250	S9KC30BH-#*	S9GX 10BH-S	SPG SG 090 IGB 005.0 C#T1	5.4	281.3	-	-	15	-		
	3.0	2.5	19.6	-	300	S9KC50BH-#*	S9GX 10BH-S	SPG SG 090 IGB 003.0 C#T1	5.4	281.3	-	-	15	-		
	2.0	1.7	19.6	-	500	S9KC75BH-#*	S9GX 10BH-S	SPG SG 090 IGB 002.0 C#T1	5.4	281.3	-	-	15	-		
	1.5	1.3	19.6	-	750	S9KC100BH-#*	S9GX 10BH-S	SPG SG 090 IGB 001.5 C#T1	5.4	281.3	-	-	15	-		
	1.3	1.0	19.6	-	1000	S9KC120BH-#*	S9GX 10BH-S	SPG SG 090 IGB 001.3 C#T1	5.4	281.3	-	-	15	-		
	1.0	0.8	19.6	-	1200	S9KC150BH-#*	S9GX 10BH-S	SPG SG 090 IGB 001.0 C#T1	5.4	281.3	-	-	15	-		
	0.8	0.7	19.6	-	1500	S9KC180BH-#*	S9GX 10BH-S	SPG SG 090 IGB 000.8 C#T1	5.4	281.3	-	-	15	-		
	0.7	0.6	19.6	-	1800	S9KC200BH-#*	S9GX 10BH-S	SPG SG 090 IGB 000.7 C#T1	5.4	281.3	-	-	15	-		

* Torque limiter recommended

SPG

1-phase geared brake motors 230 V | 6 and 15 W

TECHNICAL FEATURES

- 230 V ± 10 %/50 Hz
- S2 intermittent operation 30 min
- IP 23 protection
- incl. motor capacitors 0.8/1.5 µF
- 15 W motors with overtemperature protector switch as NC contact
- CE/UL/cUL/CCC approval

Geared motors					Type designation			Gearbox	Intermediate gearbox	Motor	Geared motor	Weight	Total length	Output shaft Ø
Output	Output speed without load	Rated output speed	Rated output torque	Ratio**	Type-no.	Type-no.	Type-no.							
P _n	n ₂	n _{2N}	M ₂	i _{ges}										
[Watt]	[1/min]	[1/min]	[Nm]											
6	500	433	0.12	3	S6DA3B1			SG6R6GB-EA			SPG SG 006 RGB 500.0 AE 1	1.2	173.5	8
	300	260	0.20	5	S6DA5B1						SPG SG 006 RGB 300.0 AE 1	1.2	173.5	8
	200	173	0.31	7.5	S6DA7.5B1						SPG SG 006 RGB 200.0 AE 1	1.2	173.5	8
	150	130	0.42	10	S6DA10B1						SPG SG 006 RGB 150.0 AE 1	1.2	173.5	8
	100	87	0.63	15	S6DA15B1						SPG SG 006 RGB 100.0 AE 1	1.2	173.5	8
	75	65	0.76	20	S6DA20B1						SPG SG 006 RGB 075.0 AE 1	1.2	183.5	8
	60	52	0.95	25	S6DA25B1						SPG SG 006 RGB 060.0 AE 1	1.2	183.5	8
	50	43	1.1	30	S6DA30B1						SPG SG 006 RGB 050.0 AE 1	1.2	183.5	8
	30	26	1.5	50	S6DA50B1						SPG SG 006 RGB 030.0 AE 1	1.2	183.5	8
	20	17	2.5	75	S6DA75B1*						SPG SG 006 RGB 020.0 AE 1	1.2	183.5	8
	15	13	2.9	100	S6DA100B1*						SPG SG 006 RGB 015.0 AE 1	1.2	183.5	8
	12.5	11	2.9	120	S6DA120B1*						SPG SG 006 RGB 012.5 AE 1	1.2	183.5	8
	10	9	2.9	150	S6DA150B1*						SPG SG 006 RGB 010.0 AE 1	1.2	183.5	8
	8.3	7	2.9	180	S6DA180B1*						SPG SG 006 RGB 008.3 AE 1	1.2	183.5	8
15	500	433	0.31	3	S7KA3B1			SG7R15GB-EA			SPG SG 015 RGB 500.0 AE 1	1.6	180.5	10
	300	260	0.53	5	S7KA5B1						SPG SG 015 RGB 300.0 AE 1	1.6	180.5	10
	200	173	0.8	7.5	S7KA7.5B1						SPG SG 015 RGB 200.0 AE 1	1.6	180.5	10
	150	130	1.05	10	S7KA10B1						SPG SG 015 RGB 150.0 AE 1	1.6	180.5	10
	100	87	1.58	15	S7KA15B1						SPG SG 015 RGB 100.0 AE 1	1.6	180.5	10
	75	65	1.9	20	S7KA20B1						SPG SG 015 RGB 075.0 AE 1	1.6	190.5	10
	60	52	2.3	25	S7KA25B1						SPG SG 015 RGB 060.0 AE 1	1.6	190.5	10
	50	43	2.8	30	S7KA30B1						SPG SG 015 RGB 050.0 AE 1	1.6	190.5	10
	30	26	4.3	50	S7KA50B1						SPG SG 015 RGB 030.0 AE 1	1.6	190.5	10
	20	17	4.9*	75	S7KA75B1*						SPG SG 015 RGB 020.0 AE 1	1.6	190.5	10
	15	13	4.9*	100	S7KA100B1*						SPG SG 015 RGB 015.0 AE 1	1.6	190.5	10
	12.5	11	4.9*	120	S7KA120B1*						SPG SG 015 RGB 012.5 AE 1	1.6	190.5	10
	10	9	4.9*	150	S7KA150B1*						SPG SG 015 RGB 010.0 AE 1	1.6	190.5	10
	8.3	7	4.9*	180	S7KA180B1*						SPG SG 015 RGB 008.3 AE 1	1.6	190.5	10

The brake connection voltage is ensured by the main terminal voltage with the rectifier integrated in the geared motor.

* Torque limiter recommended

SPG

1-phase geared brake motors 230 V | 25 and 40 W

TECHNICAL FEATURES

- 230 V ± 10 %/50 Hz
- incl. motor capacitors 2,0/3,5 µF
- S2 intermittent operation 30 min
- Overtemperature protector
- IP23 protection
- switch as NC contact
- CE/UL/cUL/CCC approval

Geared motors					Type designation			Gearbox	Intermediate gearbox	Motor	Geared motor	Weight	Total length	Output shaft Ø
Output	Output speed without load	Rated output speed	Rated output torque	Ratio**	Type-no.	Type-no.	Type-no.							
P _n	n ₂	n _{2N}	M ₂	i _{ges}										
[Watt]	[1/min]	[1/min]	[Nm]											
25	500	425	0.5	3	S8KA3B1			SG8R25GB-EA			SPG SG 025 RGB 500.0 AE 1	2.5	187.5	10
	300	255	0.87	5	S8KA5B1						SPG SG 025 RGB 300.0 AE 1	2.5	187.5	10
	200	170	1.3	7.5	S8KA7.5B1						SPG SG 025 RGB 200.0 AE 1	2.5	187.5	10
	150	128	1.7	10	S8KA10B1						SPG SG 025 RGB 150.0 AE 1	2.5	187.5	10
	100	85	2.6	15	S8KA15B1						SPG SG 025 RGB 100.0 AE 1	2.5	187.5	10
	75	64	3.1	20	S8KA20B1						SPG SG 025 RGB 075.0 AE 1	2.5	198	10
	60	51	3.9	25	S8KA25B1						SPG SG 025 RGB 060.0 AE 1	2.5	198	10
	50	43	4.7	30	S8KA30B1						SPG SG 025 RGB 050.0 AE 1	2.5	198	10
	30	26	7.1	50	S8KA50B1						SPG SG 025 RGB 030.0 AE 1	2.5	198	10
	20	17	7.8	75	S8KA75B1*						SPG SG 025 RGB 020.0 AE 1	2.5	198	10
	15	13	7.8	100	S8KA100B1*						SPG SG 025 RGB 015.0 AE 1	2.5	198	10
	12.5	11	7.8	120	S8KA120B1*						SPG SG 025 RGB 012.5 AE 1	2.5	198	10
	10	9	7.8	150	S8KA150B1*						SPG SG 025 RGB 010.0 AE 1	2.5	198	10
	8.3	7	7.8	180	S8KA180B1*						SPG SG 025 RGB 008.3 AE 1	2.5	198	10
40	500	450	0.8	3	S9KB3B1H			SG9R40GBH-EA			SPG SG 040 RGB 500.0 BE 1	3.9	217.5	12
	300	270	1.35	5	S9KB5B1H						SPG SG 040 RGB 300.0 BE 1	3.9	217.5	12
	200	180	2.0	7.5	S9KB7.5B1H						SPG SG 040 RGB 200.0 BE 1	3.9	217.5	12
	150	135	2.7	10	S9KB10B1H						SPG SG 040 RGB 150.0 BE 1	3.9	217.5	12
	100	90	4.0	15	S9KB15B1H						SPG SG 040 RGB 100.0 BE 1	3.9	217.5	12
	75	68	4.8	20	S9KB20B1H						SPG SG 040 RGB 075.0 BE 1	3.9	235.5	12
	60	54	6.0	25	S9KB25B1H						SPG SG 040 RGB 060.0 BE 1	3.9	235.5	12
	50	45	7.3	30	S9KB30B1H						SPG SG 040 RGB 050.0 BE 1	3.9	235.5	12
	30	27	9.8	50	S9KB50B1H						SPG SG 040 RGB 030.0 BE 1	3.9	235.5	12
	20	18	9.8	75	S9KB75B1H*						SPG SG 040 RGB 020.0 BE 1	3.9	235.5	12
	15	14	9.8	100	S9KB100B1H*						SPG SG 040 RGB 015.0 BE 1	3.9	235.5	12
	12.5	11	9.8	120	S9KB120B1H*						SPG SG 040 RGB 012.5 BE 1	3.9	235.5	12
	10	9	9.8	150	S9KB150B1H*						SPG SG 040 RGB 010.0 BE 1	3.9	235.5	12
	8.3	8	9.8	180	S9KB180B1H*						SPG SG 040 RGB 008.3 BE 1	3.9	235.5	12

The brake connection voltage is ensured by the main terminal voltage with the rectifier integrated in the geared motor.

* Torque limiter recommended

SPG

1-phase geared brake motors 230 V | 60 and 90 W

TECHNICAL FEATURES

- 230 V ± 10 %/50 Hz
- incl. motor capacitors 5,0/7,0 µF
- S2 intermittent operation 30 min
- Overtemperature protector
- IP23 protection
- switch as NC contact
- CE/UL/cUL/CCC approval

Gearbox type

C: 60-90 W square flange

CS: 60-90 W rectangular flange

D: 60-90 W square flange, high torque

Geared motors							Type designation			Gearbox	Intermediate gearbox	Motor	Geared motor	Weight	Total length	Weight (HT) High Torque	Total length (HT)	Output shaft Ø	Output shaft Ø (HT)
Output	Output speed without load	Rated output speed	Rated output torque	Nominal torque (HT)	Ratio**	Type-no.	Type-no.	Type-no.	Order-no.										
P _n	n ₂	n _{2N}	M ₂	M ₂	i _{ges}														
[Watt]	[1/min]	[1/min]	[Nm]	[Nm]						SG9R60GBH-EA	SG9R90GBH-EA	SG9R90GBH-EA	SG9R90GBH-EA	SG9R90GBH-EA	SG9R90GBH-EA	SG9R90GBH-EA	SG9R90GBH-EA	SG9R90GBH-EA	SG9R90GBH-EA
60	500	433	1.1	-	3	S9KC3BH-#			SPG SG 060 RGB 500.0 C#E 1										
	300	260	1.9	-	5	S9KC5BH-#			SPG SG 060 RGB 300.0 C#E 1										
	200	173	3.9	-	7.5	S9KC7.5BH-#			SPG SG 060 RGB 200.0 C#E 1										
	150	130	5.4	-	10	S9KC10BH-#			SPG SG 060 RGB 150.0 C#E 1										
	100	87	7.2	-	15	S9KC15BH-#			SPG SG 060 RGB 100.0 C#E 1										
	75	65	8.1	-	20	S9KC20BH-#			SPG SG 060 RGB 075.0 C#E 1										
	60	52	9.7	-	25	S9KC25BH-#			SPG SG 060 RGB 060.0 C#E 1										
	50	43	16.1	-	30	S9KC30BH-#			SPG SG 060 RGB 050.0 C#E 1										
	30	26	19.6	16.2	50	S9K*50BH-#			SPG SG 060 RGB 030.0 *#E 1										
	20	17	19.6	21.2	75	S9K*75BH-#*			SPG SG 060 RGB 020.0 *#E 1										
	15	13	19.6	28.9	100	S9K*100BH-#*			SPG SG 060 RGB 015.0 *#E 1										
	12.5	11	19.6	29.4	120	S9K*120BH-#*			SPG SG 060 RGB 012.5 *#E 1										
	10	9	19.6	29.4	150	S9K*150BH-#*			SPG SG 060 RGB 010.0 *#E 1										
	7.5	7	19.6	29.4	180	S9K*200BH-#*			SPG SG 060 RGB 008.3 *#E 1										
90	500	425	1.8	-	3	S9KC3BH-#			SPG SG 090 RGB 006.0 C#E 1										
	300	255	2.9	-	5	S9KC5BH-#			SPG SG 090 RGB 005.0 C#E 1										
	200	170	5.9	-	7.5	S9KC7.5BH-#			SPG SG 090 RGB 003.0 C#E 1										
	150	128	8.0	-	10	S9KC10BH-#			SPG SG 090 RGB 002.0 C#E 1										
	100	85	10.8	-	15	S9KC15BH-#			SPG SG 090 RGB 001.5 C#E 1										
	75	64	12.1	-	20	S9KC20BH-#			SPG SG 090 RGB 001.3 C#E 1										
	60	51	14.6	-	25	S9KC25BH-#			SPG SG 090 RGB 001.0 C#E 1										
	50	43	19.6	-	30	S9KC30BH-#			SPG SG 090 RGB 000.8 C#E 1										
	30	26	19.6	-	50	S9KC50BH-#			SPG SG 090 RGB 000.7 C#E 1										
	20	17	19.6	-	75	S9KC75BH-#*			SPG SG 090 RGB 020.0 C#E 1										
	15	13.5	19.6	-	100	S9KC100BH-#*			SPG SG 090 RGB 015.0 C#E 1										
	12.5	11.8	19.6	-	120	S9KC120BH-#*			SPG SG 090 RGB 012.5 C#E 1										
	10	9	19.6	-	150	S9KC150BH-#*			SPG SG 090 RGB 010.0 C#E 1										
	7.5	6	19.6	-	180	S9KC200BH-#*			SPG SG 090 RGB 007.5 C#E 1										

The brake connection voltage is ensured by the main terminal voltage with the rectifier integrated in the geared motor.

* Torque limiter recommended

SPG

3-phase geared brake motors 230 V | 25 and 40 W

TECHNICAL FEATURES

- 3 x 230 V ± 10 %/50 Hz
- S1 continuous operation
- IP 23 protection
- Overtemperature protector switch as NC contact
- CE/UL/cUL/CCC approval

Getriebemotoren					Typenbezeichnung			Geared motor	Weight	Total length	Output shaft Ø
Output	Output speed without load	Rated output speed	Rated output torque	Ratio**	Gearbox	Intermediate gearbox	Motor				
P _n	n ₂	n _{2N}	M ₂	i _{ges}	Type-no.	Type-no.	Type-no.	Order-no.	kg	mm	mm
[Watt]	[1/min]	[1/min]	[Nm]								
25	500	458	0.5	3	S8KA3B1			SPG SG 025 IGT 500.0 AE 1	2.5	187.5	10
	300	275	0.87	5	S8KA5B1			SPG SG 025 IGT 300.0 AE 1	2.5	187.5	10
	200	183	1.3	7.5	S8KA7.5B1			SPG SG 025 IGT 200.0 AE 1	2.5	187.5	10
	150	138	1.7	10	S8KA10B1			SPG SG 025 IGT 150.0 AE 1	2.5	187.5	10
	100	92	2.6	15	S8KA15B1			SPG SG 025 IGT 100.0 AE 1	2.5	187.5	10
	75	69	3.1	20	S8KA20B1			SPG SG 025 IGT 075.0 AE 1	2.5	198	10
	60	55	3.9	25	S8KA25B1			SPG SG 025 IGT 060.0 AE 1	2.5	198	10
	50	46	4.7	30	S8KA30B1			SPG SG 025 IGT 050.0 AE 1	2.5	198	10
	30	28	7.1	50	S8KA50B1			SPG SG 025 IGT 030.0 AE 1	2.5	198	10
	20	18	7.8	75	S8KA75B1*			SPG SG 025 IGT 020.0 AE 1	2.5	198	10
	15	14	7.8	100	S8KA100B1*			SPG SG 025 IGT 015.0 AE 1	2.5	198	10
	12.5	111	7.8	120	S8KA120B1*			SPG SG 025 IGT 012.5 AE 1	2.5	198	10
	10	9	7.8	150	S8KA150B1*			SPG SG 025 IGT 010.0 AE 1	2.5	198	10
	8.3	8	7.8	180	S8KA180B1*			SPG SG 025 IGT 008.3 AE 1	2.5	198	10
40	500	467	0.8	3	S9KB3B1H			SPG SG 040 IGT 500.0 BE 1	3.9	217.5	12
	300	280	1.35	5	S9KB5B1H			SPG SG 040 IGT 300.0 BE 1	3.9	217.5	12
	200	187	2.0	7.5	S9KB7.5B1H			SPG SG 040 IGT 200.0 BE 1	3.9	217.5	12
	150	140	2.7	10	S9KB10B1H			SPG SG 040 IGT 150.0 BE 1	3.9	217.5	12
	100	93	4.0	15	S9KB15B1H			SPG SG 040 IGT 100.0 BE 1	3.9	217.5	12
	75	70	4.8	20	S9KB20B1H			SPG SG 040 IGT 075.0 BE 1	3.9	235.5	12
	60	56	6.0	25	S9KB25B1H			SPG SG 040 IGT 060.0 BE 1	3.9	235.5	12
	50	47	7.3	30	S9KB30B1H			SPG SG 040 IGT 050.0 BE 1	3.9	235.5	12
	30	28	9.8	50	S9KB50B1H			SPG SG 040 IGT 030.0 BE 1	3.9	235.5	12
	20	19	9.8	75	S9KB75B1H*			SPG SG 040 IGT 020.0 BE 1	3.9	235.5	12
	15	14	9.8	100	S9KB100B1H*			SPG SG 040 IGT 015.0 BE 1	3.9	235.5	12
	12.5	12	9.8	120	S9KB120B1H*			SPG SG 040 IGT 012.5 BE 1	3.9	235.5	12
	10	9	9.8	150	S9KB150B1H*			SPG SG 040 IGT 010.0 BE 1	3.9	235.5	12
	8.3	8	9.8	180	S9KB180B1H*			SPG SG 040 IGT 008.3 BE 1	3.9	235.5	12

The brake connection voltage is ensured by the main terminal voltage with the rectifier integrated in the geared motor.

* Torque limiter recommended

SPG

3-phase geared brake motors 230 V | 60 and 90 W

TECHNICAL FEATURES

- 3 x 230 V ± 10 %/50 Hz
- S1 continuous operation
- IP 23 protection
- Overtemperature protector switch as NC contact
- CE/UL/cUL/CCC approval

Gearbox type

C: 60-90 W square flange

CS: 60-90 W rectangular flange

D: 60-90 W square flange, high torque

Geared motors							Type designation			Gearbox	Intermediate gearbox	Motor	Geared motor	Weight	Total length	Weight (HT) High Torque	Total length (HT)	Output shaft Ø	Output shaft Ø (HT)	
Output	Output speed without load	Rated output speed	Rated output torque	Nominal torque (HT)	Ratio**	Type-no.	Type-no.	Type-no.	Order-no.											
P _n	[Watt]	n ₂	n _{2N}	M ₂	M ₂	i _{ges}				mm	mm	kg	mm	mm	mm	mm	mm			
60	500	467	1.1	-	3	S9KC3BH-#				SG9I60GTH-EA				SPG SG 060 IGT 500.0 C#E 1	4.4	266.8	-	-	15	-
	300	280	1.9	-	5	S9KC5BH-#								SPG SG 060 IGT 300.0 C#E 1	4.4	266.8	-	-	15	-
	200	187	3.9	-	7.5	S9KC7.5BH-#								SPG SG 060 IGT 200.0 C#E 1	4.4	266.8	-	-	15	-
	150	140	5.4	-	10	S9KC10BH-#								SPG SG 060 IGT 150.0 C#E 1	4.4	266.8	-	-	15	-
	100	93	7.2	-	15	S9KC15BH-#								SPG SG 060 IGT 100.0 C#E 1	4.4	266.8	-	-	15	-
	75	70	8.1	-	20	S9KC20BH-#								SPG SG 060 IGT 075.0 C#E 1	4.4	266.8	-	-	15	-
	60	56	9.7	-	25	S9KC25BH-#								SPG SG 060 IGT 060.0 C#E 1	4.4	266.8	-	-	15	-
	50	47	16.1	-	30	S9KC30BH-#								SPG SG 060 IGT 050.0 C#E 1	4.4	266.8	-	-	15	-
	30	28	19.6	16.2	50	S9K*50BH-#								SPG SG 060 IGT 030.0 *#E 1	4.4	266.8	4.9	290.3	15	18
	20	19	19.6	21.2	75	S9K*75BH-#*								SPG SG 060 IGT 020.0 *#E 1	4.4	266.8	4.9	290.3	15	18
	15	14	19.6	28.9	100	S9K*100BH-#*								SPG SG 060 IGT 015.0 *#E 1	4.4	266.8	4.9	290.3	15	18
	12.5	12	19.6	29.4	120	S9K*120BH-#*								SPG SG 060 IGT 012.5 *#E 1	4.4	266.8	4.9	290.3	15	18
	10	9	19.6	29.4	150	S9K*150BH-#*								SPG SG 060 IGT 010.0 *#E 1	4.4	266.8	4.9	290.3	15	18
	7.5	8	19.6	29.4	180	S9K*200BH-#*								SPG SG 060 IGT 008.3 *#E 1	4.4	266.8	4.9	290.3	15	18
90	500	467	1.8	-	3	S9KC3BH-#				SG9I90GTH-EA				SPG SG 090 IGT 006.0 C#E 1	4.9	281.8	-	-	15	-
	300	280	2.9	-	5	S9KC5BH-#								SPG SG 090 IGT 005.0 C#E 1	4.9	281.8	-	-	15	-
	200	187	5.9	-	7.5	S9KC7.5BH-#								SPG SG 090 IGT 003.0 C#E 1	4.9	281.8	-	-	15	-
	150	140	8.0	-	10	S9KC10BH-#								SPG SG 090 IGT 002.0 C#E 1	4.9	281.8	-	-	15	-
	100	93	10.8	-	15	S9KC15BH-#								SPG SG 090 IGT 001.5 C#E 1	4.9	281.8	-	-	15	-
	75	70	12.1	-	20	S9KC20BH-#								SPG SG 090 IGT 001.3 C#E 1	4.9	281.8	-	-	15	-
	60	56	14.6	-	25	S9KC25BH-#								SPG SG 090 IGT 001.0 C#E 1	4.9	281.8	-	-	15	-
	50	47	19.6	-	30	S9KC30BH-#								SPG SG 090 IGT 000.8 C#E 1	4.9	281.8	-	-	15	-
	30	28	19.6	-	50	S9KC50BH-#								SPG SG 090 IGT 000.7 C#E 1	4.9	281.8	-	-	15	-
	20	19	19.6	-	75	S9KC75BH-#*								SPG SG 090 IGT 020.0 C#E 1	4.9	281.8	-	-	15	-
	15	14	19.6	-	100	S9KC100BH-#*								SPG SG 090 IGT 015.0 CvE 1	4.9	281.8	-	-	15	-
	12.5	12	19.6	-	120	S9KC120BH-#*								SPG SG 090 IGT 012.5 C#E 1	4.9	281.8	-	-	15	-
	10	9.3	19.6	-	150	S9KC150BH-#*								SPG SG 090 IGT 010.0 C#E 1	4.9	281.8	-	-	15	-
	7.5	7.0	19.6	-	180	S9KC200BH-#*								SPG SG 090 IGT 007.5 C#E 1	4.9	281.8	-	-	15	-

The brake connection voltage is ensured by the main terminal voltage with the rectifier integrated in the geared motor.

* Torque limiter recommended

Technical features

Motor data

1-phase motors 230 V

Design:

1-phase motors, standard

Supply voltage:

230 V, 50 Hz

Operating mode:

S1 continuous operation

Motor data		Motor type-no.					
		SG6I06GB-TA	SG7I15GB-TA	SG8I25GB-TA	SG9I40GBH-TA	SG9I60GBH-TA	SG9I90GBH-TA
Output	[Watt]	6	15	25	40	60	90
Weight	[kg]	0.7	1.1	1.6	2.45	2.6	3.1
Rated current	[A]	0.12	0.18	0.23	0.35	0.58	0.68
Input power	[Watt]	23	38	50	74	119	154
Rated speed	[1/min]	1250	1250	1300	1300	1350	1350
Rated torque	[Nm]	0.046	0.11	0.19	0.29	0.43	0.63
Starting current	[A]	0.18	0.34	0.48	0.9	1.01	1.9
Starting torque	[Nm]	0.052	0.8	0.17	0.24	0.49	0.7
Capacitor	[μ F]	0.6	1.0	1.5	2.3	4.0	6.0
Capacitor	[V]	450	450	450	450	450	450
Type of protection	IP	IP 23	IP 23	IP 54	IP 54	IP 54	IP 54
Insulation class		B	B	B	B	B	B
Approvals		UL/cUL/CE/CCC	UL/cUL/CE/CCC	UL/cUL/CE/CCC	UL/cUL/CE/CCC	UL/cUL/CE/CCC	UL/cUL/CE/CCC
Thermal switch		No	Yes	Yes	Yes	Yes	Yes
Braking current	[A]	-	-	-	-	-	-
Brake input power	[W]	-	-	-	-	-	-
Brake holding torque	[Nm]	-	-	-	-	-	-

Technical features

Motor data

1-phase brake motors 230 V

Design:

1-phase brake motors

Supply voltage:

230 V, 50 Hz

Operating mode:

S2 intermittent operation

		Motor type-no.						
		SG6R6GB-EA	SG7R15GB-EA	SG8R25GB-EA	SG9R40GBH-EA	SG9R60GBH-EA	SG9R90GBH-EA	
Motor data	Output	[Watt]	6	15	25	40	60	90
	Weight	[kg]	0.95	1.3	1.9	2.7	2.9	3.4
	Rated current	[A]	0.14	0.21	0.3	0.42	0.65	0.8
	Input power	[Watt]	30	47	64.5	93	139	184
	Rated speed	[1/min]	1300	1300	1300	1350	1350	1300
	Rated torque	[Nm]	0.044	0.11	0.18	0.28	0.43	0.65
	Starting current	[A]	0.18	0.34	0.5	1	1.2	1.6
	Starting torque	[Nm]	0.07	0.13	0.23	0.42	0.64	0.85
	Capacitor	[μF]	0.8	1.5	2.0	3.5	5.0	7.0
	Capacitor	[V]	450	450	450	450	450	450
	Type of protection	IP	IP 23					
	Insulation class		B	B	B	B	B	B
	Approvals		UL/cUL/CE/CCC	UL/cUL/CE/CCC	UL/cUL/CE/CCC	UL/cUL/CE/CCC	UL/cUL/CE/CCC	UL/cUL/CE/CCC
	Thermal switch		No	Yes	Yes	Yes	Yes	Yes
	Braking current	[A]	-	-	-	-	-	-
	Brake input power	[W]	-	-	-	-	-	-
	Brake holding torque	[Nm]	-	-	-	-	-	-

3-phase motors 230 V

Design:

3-phase motors

Supply voltage:

230 V, 50 Hz

Operating mode:

S1 continuous operation

		Motor type-no.				
		SG8I25GT-TA	SG9I40GTH-TA	SG9I60GTH-TA	SG9I60GTH-TA	
Motor data	Output	[Watt]	25	40	60	90
	Weight	[kg]	1.6	2.45	2.6	3.1
	Rated current [A]	[A]	0.27	0.28	0.48	0.67
	Input power	[Watt]	50.5	63	101	142
	Rated speed	[1/min]	1350	1350	1350	1350
	Rated torque	[Nm]	0.18	0.28	0.42	0.63
	Starting current	[A]	0.79	1.3	1.7	2.3
	Starting torque	[Nm]	0.92	1.31	1.96	2.9
	Capacitor	[μF]	-	-	-	-
	Capacitor	[V]	-	-	-	-
	Type of protection	IP	IP 54	IP 54	IP 54	IP 54
	Insulation class		B	B	B	B
	Approvals		UL/cUL/CE/CCC	UL/cUL/CE/CCC	UL/cUL/CE/CCC	UL/cUL/CE/CCC
	Thermal switch		Yes	Yes	Yes	Yes
	Braking current	[A]	-	-	-	-
	Brake input power	[W]	-	-	-	-
	Brake holding torque	[Nm]	-	-	-	-

Technical features

Motor data

3-phase motors 400 V

Design:

3-phase motors

Supply voltage:

400 V, 50 Hz

Operating mode:

S1 continuous operation

Motor data	Motor type-no.				
	SG8I25GS-TA	SG9I40GSH-TA	SG9I60GSH-TA	SG9I90GSH-TA	
Output	[Watt]	25	40	60	90
Weight	[kg]	1.6	2.45	2.6	3.1
Rated current [A]	[A]	0.13	0.18	0.26	0.30
Input power	[Watt]	47	68	100	138
Rated speed	[1/min]	1350	1350	1350	1350
Rated torque	[Nm]	0.18	0.28	0.42	0.65
Starting current	[A]	0.34	0.61	0.78	1
Starting torque	[Nm]	0.72	1.34	1.85	2.25
Capacitor	[μ F]	-	-	-	-
Capacitor	[V]	-	-	-	-
Type of protection	IP	IP 54	IP 54	IP 54	IP 54
Insulation class		B	B	B	B
Approvals		UL/cUL/CE/CCC	UL/cUL/CE/CCC	UL/cUL/CE/CCC	UL/cUL/CE/CCC
Thermal switch		Yes	Yes	Yes	Yes
Braking current	[A]	-	-	-	-
Brake input power	[W]	-	-	-	-
Brake holding torque	[Nm]	-	-	-	-

3-phase brake motors 230 V

Design:

3-phase brake motors

Supply voltage:

230 V, 50 Hz

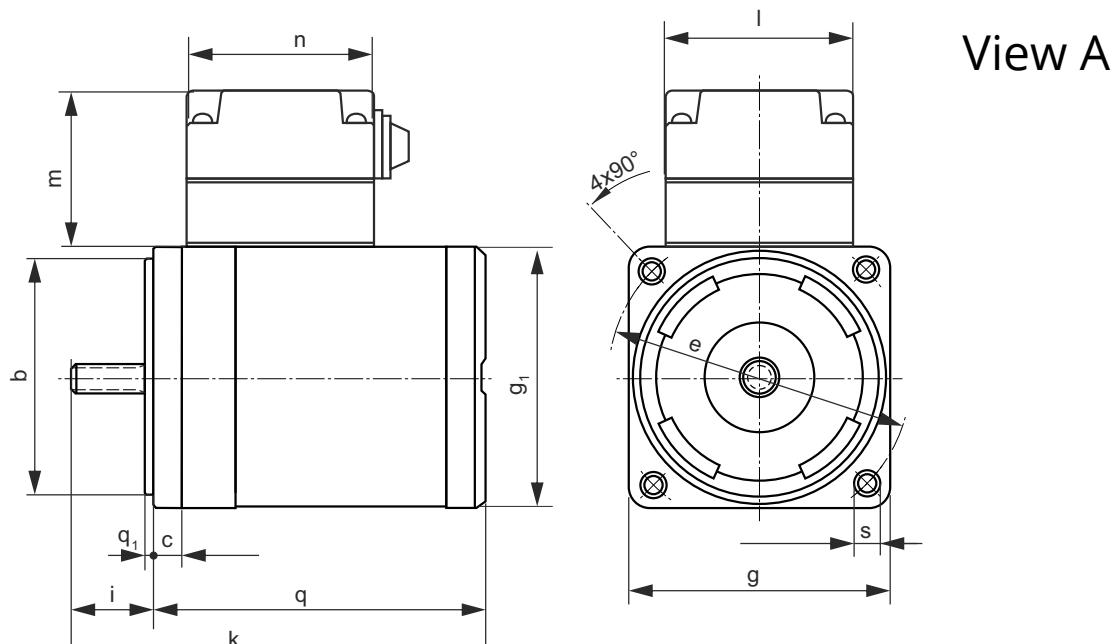
Operating mode:

S1 continuous operation

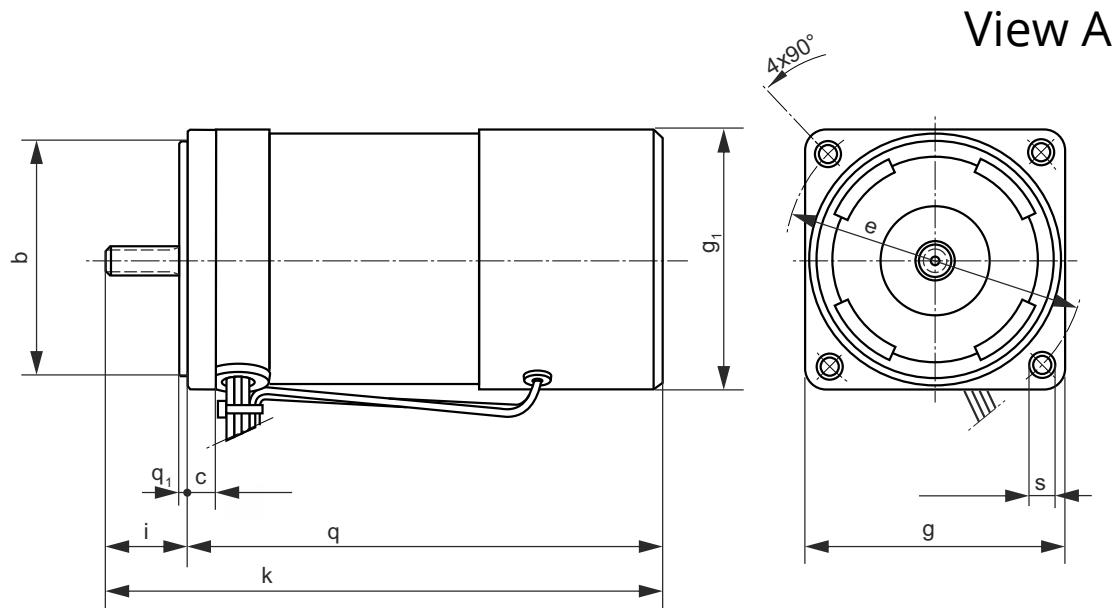
Motor data	Motor type-no.				
	SG8I25GT-EA	SG9I40GTH-EA	SG9I60GTH-EA	SG9I90GTH-EA	
Output	[Watt]	25	40	60	90
Weight	[kg]	1.86	2.74	2.9	3.4
Rated current [A]	[A]	0.31	0.31	0.5	0.69
Input power	[Watt]	59.5	75	111	154
Rated speed	[1/min]	1350	1350	1350	1350
Rated torque	[Nm]	0.18	0.28	0.42	0.64
Starting current	[A]	0.76	1.2	1.7	2.3
Starting torque	[Nm]	0.9	1.33	1.95	2.39
Capacitor	[μ F]	-	-	-	-
Capacitor	[V]	-	-	-	-
Type of protection	IP	IP 23	IP 23	IP 23	IP 23
Insulation class		B	B	B	B
Approvals		UL/cUL/CE/CCC	UL/cUL/CE/CCC	UL/cUL/CE/CCC	UL/cUL/CE/CCC
Thermal switch		Yes	Yes	Yes	Yes
Braking current	[A]	-	-	-	-
Brake input power	[W]	-	-	-	-
Brake holding torque	[Nm]	-	-	-	-

Technical features

Motor dimensions 6 and 15 W



1-phase													
Motor type	b	c	e	g	g ¹	i	k	q	q ¹	s	l	m	n
SG6□6GB-TA	54	6.5	70	60	59.5	15.2	90.2	75	2	4.5	-	-	-
SG7□15GB-TA	64	6.5	82	70	69	16.8	96.8	80	2	6.5	-	-	-

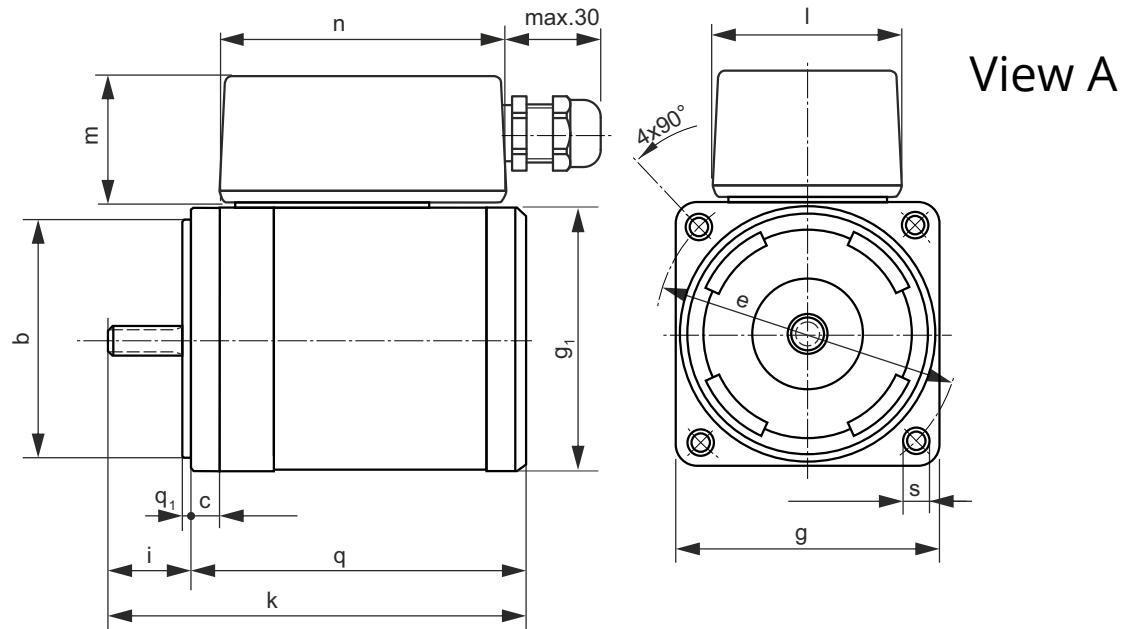


1-phase brake motors													
Motor type	b	c	e	g	g ¹	i	k	q	q ¹	s	l	m	n
SG6R6GB-EA	54	6.5	70	60	59.5	15.2	126.7	111.5	2	4.5	-	-	-
SG7R15GB-EA	64	6.5	82	70	69	16.8	133.3	116.5	2	5.5	-	-	-

All dimensions in mm

Technical features

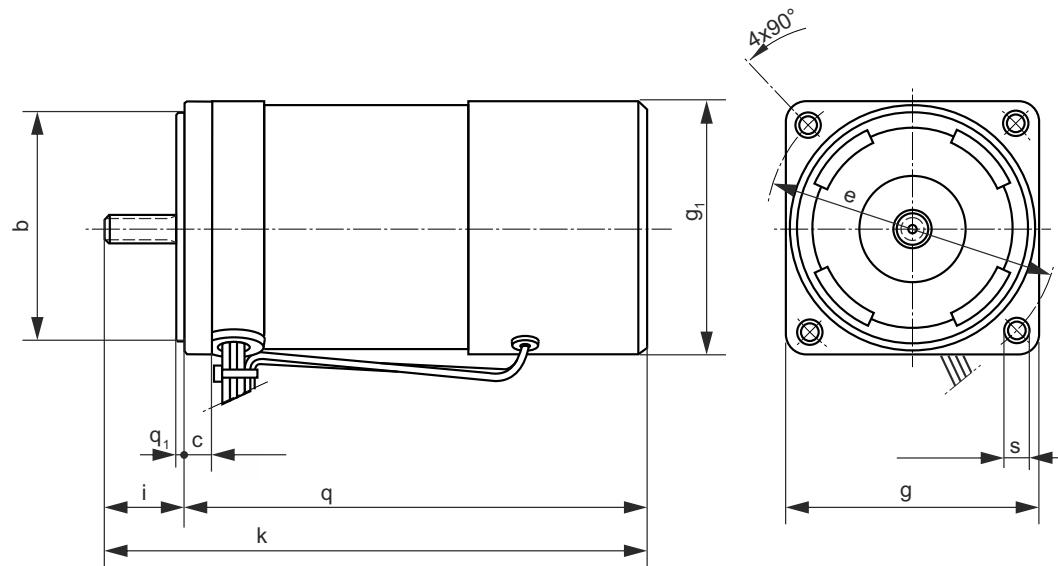
Motor dimensions 25 and 40 W



1-phase, 3-phase motors

Motor type	b	c	e	g	g ¹	i	k	q	q ¹	s	l	m	n
SG8I25G□□-TA	73	6	94	80	79.5	18	103	85	2	6.5	62.5	43	76
SG9I40G□□-TA	83	6	104	90	87.5	21.1	126.1	105	2	8.5	62.5	43	76

View A



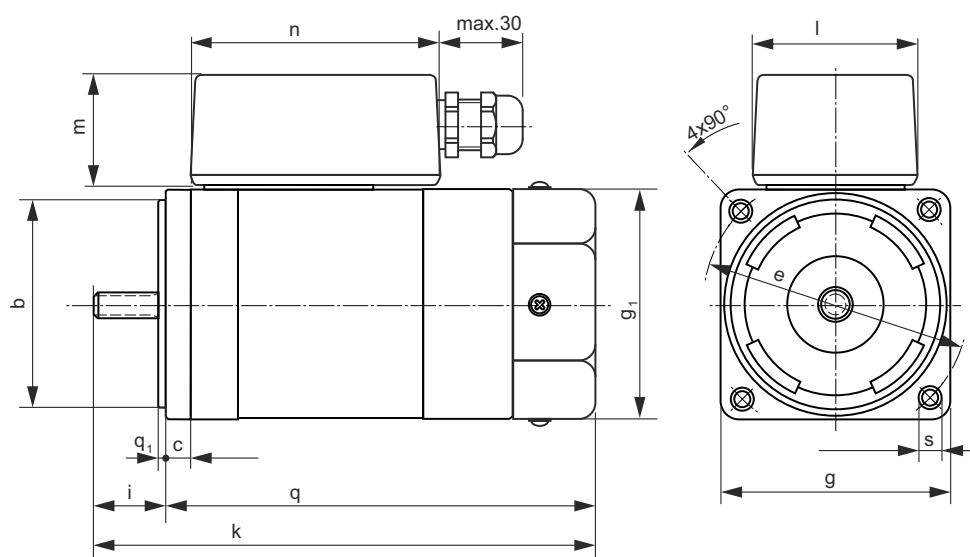
1-phase and 3-phase brake motors

Motor type	b	c	e	g	g ¹	i	k	q	q ¹	s	l	m	n
SG8□25G□-EA	73	6	94	80	79.5	18	141.5	123.5	2	6.5	-	-	-
SG9□40G□H-EA	83	6	104	90	87.5	21.1	164.5	143.5	2	8.5	-	-	-

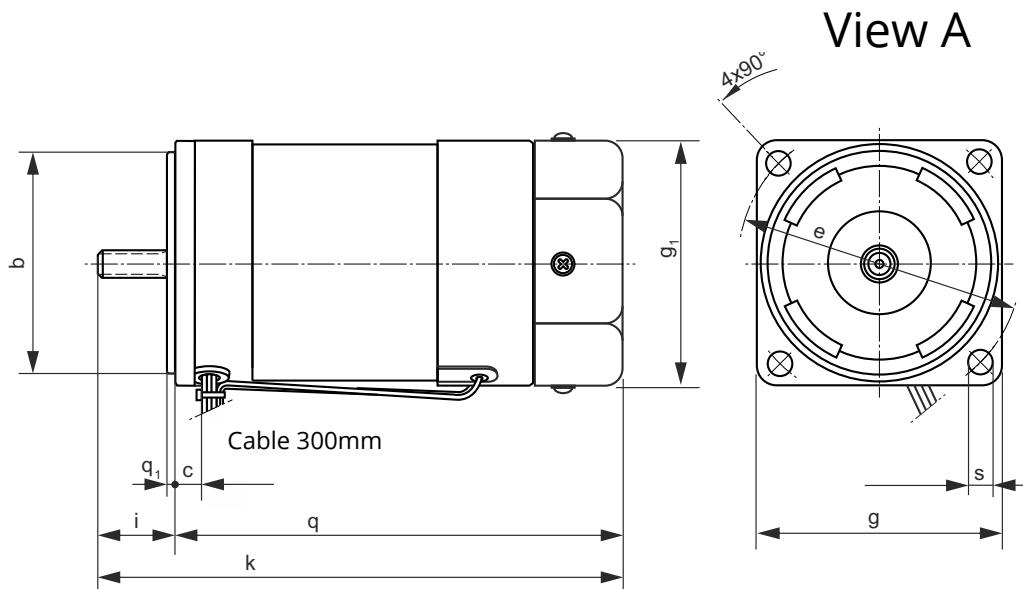
All dimensions in mm

Technical features

Motor dimensions 60 and 90 W


1-phase, 3-phase motors

Motor type	b	c	e	g	g ¹	i	k	q	q ¹	s	l	m	n
SG9I60G□H-TA	83	6	104	90	90	21.1	143.9	122.8	2	8.5	62.5	43	76
SG9I90G□H-TA	83	6	104	90	90	21.1	158.9	137.8	2	8.5	62.5	43	76


1-phase and 3-phase brake motors

Motor type	b	c	e	g	g ¹	i	k	q	q ¹	s	l	m	n
SG9□60G□H-EA	83	6	104	90	90	21.1	184.4	163.3	2	8.5	-	-	-
SG9□90G□H-EA	83	6	104	90	90	21.1	199.4	178.3	2	8.5	-	-	-

All dimensions in mm

Technical features

Gearbox data

		Gearbox type					
		S6DAxxxB1	S7KAxxxB1	S8KAxxxB1	S9KBxxxB1	S9KCxxxBH	S9KCxxxBH-S
		Output [Watt]	6	15	25	40	60
Gearbox data	Size [mm]	60	70	80	90	90	
	3	0.12	0.31	0.52	0.81	1.19	
	5	0.20	0.53	0.87	1.35	1.99	
	7.5	0.31	0.79	1.31	2.03	2.99	
	10	0.42	1.06	1.74	2.69	3.97	
	12.5	0.53	1.32	2.19	3.37	4.47	
	15	0.63	1.59	2.62	4.05	5.37	
	18	0.76	1.90	3.15	4.86	6.44	
	20	0.76	1.90	3.15	4.86	7.15	
	25	0.95	2.37	3.90	6.09	8.09	
	30	1.14	2.85	4.72	7.30	9.70	
	36	1.36	3.42	5.66	8.76	11.66	
	50	1.71	4.28	6.29	9.80	16.17	
	60	2.06	4.90	7.12	9.80	19.40	
	75	2.57	4.90	7.84	9.80	19.60	
	90	2.94	4.90	7.84	9.80	19.60	
	100	2.94	4.90	7.84	9.80	19.60	
	120	2.94	4.90	7.84	9.80	19.60	
	150	2.94	4.90	7.84	9.80	19.60	
	150	2.94	4.90	7.84	9.80	19.60	
	200	2.94	4.90	7.84	9.80	19.60	

*Nominal torque

		Gearbox type			
		S9KDxxxB	S9KCxxxBH	S9KCxxxBH-S	S9KDxxxBH-S
		Output [Watt]	60	90	60
Gearbox data	Size [mm]	90	90	90	
	3		1.78		
	5		2.98		
	7.5		4.47		
	10		5.96		
	12.5		6.70		
	15		8.05		
	18		9.66		
	20		10.78		
	25		12.15		
	30		14.60		
	36		17.44		
	50	16.17	19.40	24.32	
	60	19.40	19.60	29.13	
	75	21.67	19.60	29.42	
	90	26.09	19.60	29.42	
	100	28.93	19.60	29.42	
	120	29.42	19.60	29.42	
	150	29.42	19.60	29.42	
	180	29.42	19.60	29.42	
	200	29.42	19.60	29.42	

*Nominal torque

Technical features

Gearbox data - Transmission ratio/efficiency

Gearbox data	Gearbox type															
	S6DAxxxB1				S7KAxxxB1			S8KAxxxB1			S9KBxxxB1			S9KCxxxBH□		
	Size [mm]	60			70			80			90			90		
Weight [kg]	0.24	0.30	0.33	0.38	0.47	0.52	0.43	0.57	0.61	0.73	1.03	1.13	1.21	1.30	1.40	1.45
Ratio	3															
	5															
	7.5															
	10															
	12.5															
	15															
	18															
	20															
	25															
	30															
	36															
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	60															
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	150															
	180															
	200															

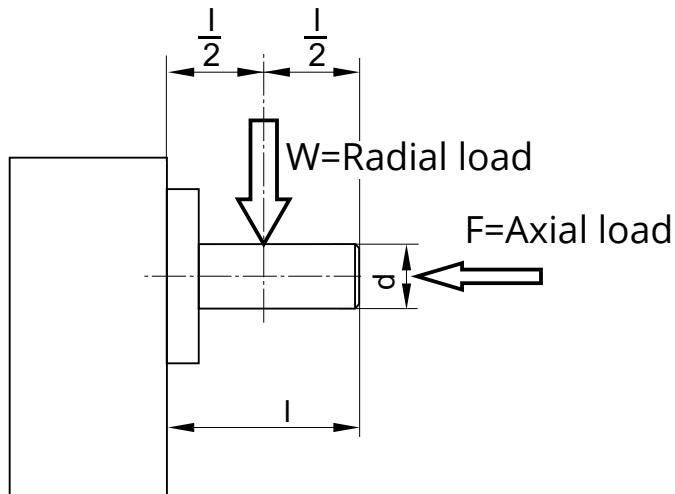
Gearbox data	Gearbox type									
	S9KDxxxB				S6GX10B	S7GX10B	S8GX10B	S9GX10BH	S9GX10BH-S	
	Ball bearing				Decimal gearbox					
Size [mm]	90				60	70	80	90	90	
Weight [kg]	1.65	1.80	1.90	1.95	0.47	0.52	0.43	0.57	0.61	
Ratio	3									
	5									
	7.5									
	10									
	12.5									
	15									
	18									
	20									
	25									
	30									
	36									
	50									
	60									
	75									
	90									
	100									
	120									
	150									
	180									
	200									

Technical features

Axial and radial loads

The radial force defines the size of the bending force active half way along the output shaft.

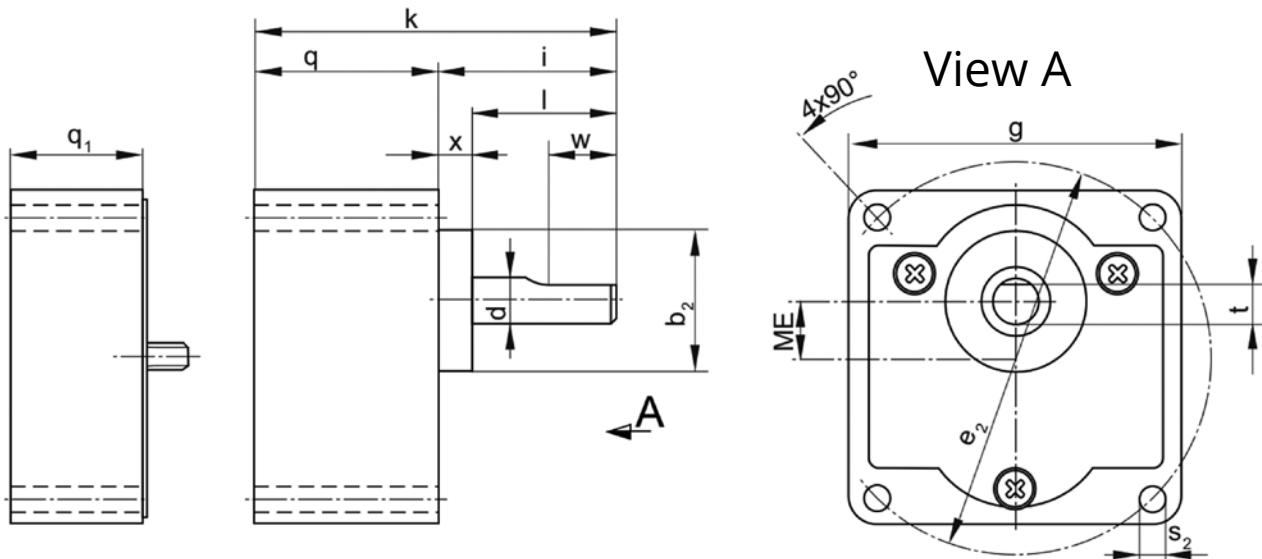
The bending force occurs particularly in belt and chain drives. Low bending forces occur in applications with flexible couplings. Axial and radial loads have a major influence on the service life of the gearbox. The loads shown in the table below are maximum values and must not be exceeded – however, they can occur simultaneously.



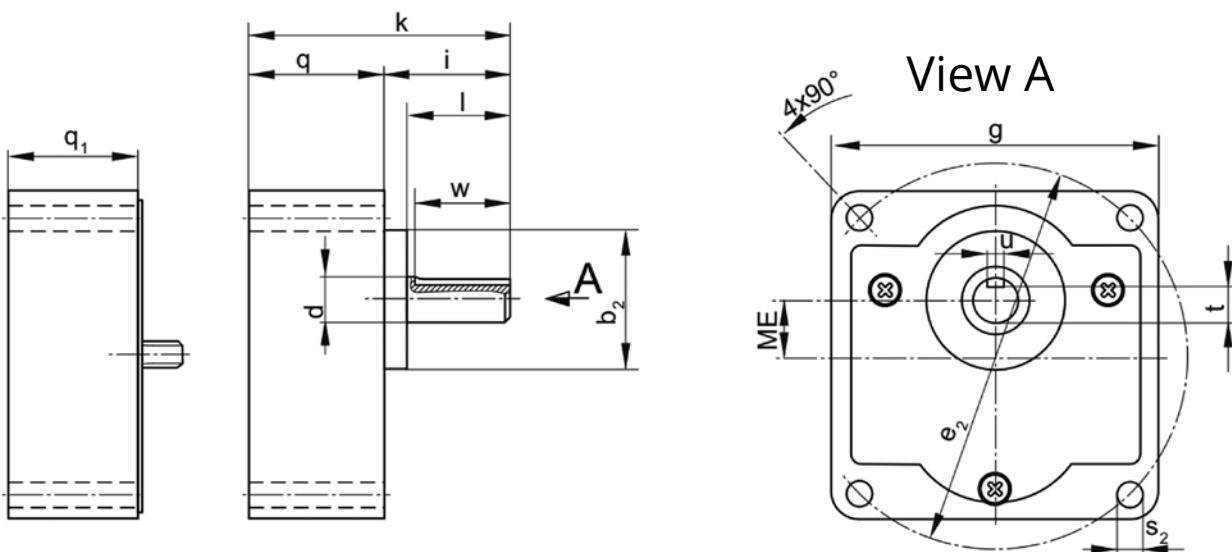
Ball bearing gearbox		Gear ratio	Max. output torque [Nm]	Max. axial load [N]	Max. radial load [N]	
Dimension	Type					
60x60 mm	S6DAxxxB1	3~18	0.1~0.6	30	60	
		20~180	0.6~3		150	
70x70 mm	S7KAxxxB1	3~18	0.3~1.8	40	100	
		20~180	2.0~5.0		200	
80x80 mm	S8KAxxxB1	3~18	0.2~2.5	50	120	
		20~180	3.0~8.0		240	
90x90 mm	S9KBxxxB1	3~18	0.4~4.0	100	300	
		20~180	4.0~10.0		370	
90x90 mm	S9KCxxxBH S9KCxxxBH-S	3~10	0.8~4.0	150	450	
		12.5~20	4.0~8.0		520	
		25~60	5.0~200		600	
		75~200			550	
90x90 mm	S9KDxxxBH	50~200	1.8~30			

Technical features

Gearbox dimensions



Gearbox type	a	b	a_1	b_1	b_2	c_1	c_2	e_2	g	k ⁽¹⁾	q ⁽¹⁾	q ⁽²⁾	i	s ₂	ME	x	d	l	t	u	w	Decimal gearbox
S6DA□□□B1	-	-	-	-	25	-	-	70	60	62(72)	30(40)	26	32	4,5	10	3	8	29	7	-	12	S6GX10B



Gearbox type	a	b	a_1	b_1	b_2	c_1	c_2	e_2	g	k ⁽¹⁾	q ⁽¹⁾	q ⁽²⁾	i	s ₂	ME	x	d	l	t	u	w	Decimal gearbox
S7KA□□□B1	-	-	-	-	30	-	-	82	70	64(74)	32(42)	30	32	5.5	15	3	10	29	7.5	4	25	S7GX10B
S8KA□□□B1	-	-	-	-	34	-	-	94	80	64(74)	32(42)	32	32	5.5	15	3	10	29	7.5	4	25	S8GX10B
S9KB□□□B1	-	-	-	-	36	-	-	104	90	74(92)	42(60)	37	32	6.5	18	3	12	29	9.5	4	25	S9GX10BH
S9KC□□□BH	-	-	-	-	34	-	-	104	90	103.5	66.5	40	38	6.5	18	7	15	31	12	5	25	S9GX10BH-S

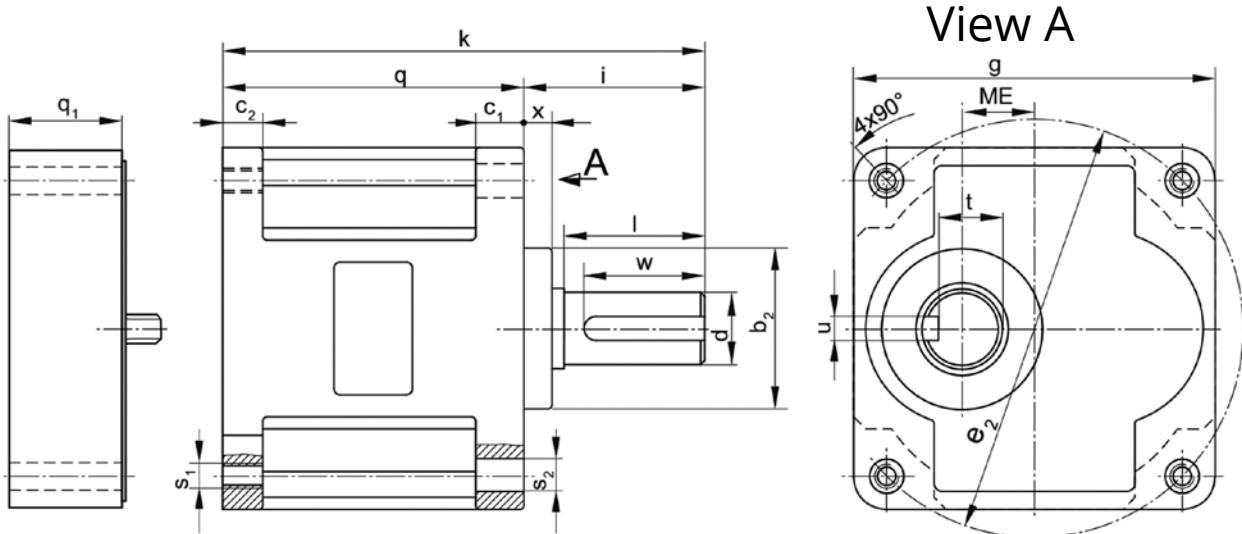
All dimensions in mm

(1) The values shown in brackets relate to ratios of 20:1 or higher

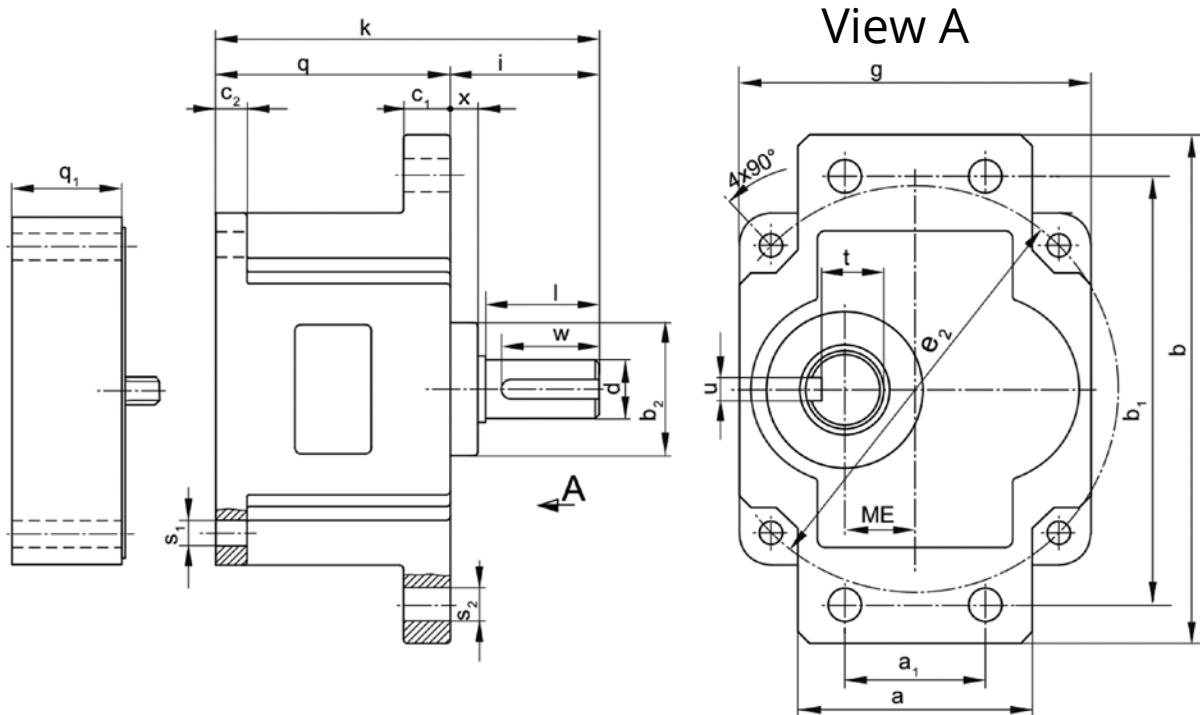
(2) Extension, decimal gearbox

Technical features

Gearbox dimensions



Gearbox type	a	b	a_1	b_1	b_2	c_1	c_2	e_2	g	k	$q^{(1)}$	$q_1^{(2)}$	i	s_1	s_2	ME	x	d	l	t	u	w	Decimal gearbox
S9KD□□□BH	-	-	-	-	40	12	10	104	90	127	85	40	42	M6	8.5	18	7	18	35	14.5	5	27.5	S9GX10BH-S



Gearbox type	a	b	a_1	b_1	b_2	c_1	c_2	e_2	g	$k^{(1)}$	$q^{(1)}$	$q_1^{(2)}$	i	s_2	ME	x	d	l	t	u	w	Decimal gearbox
S9KC□□□BH-S	60	130	36	110	34	12	7.5	104	90	103.5	65.5	40	38	8.5	18	7	15	31	12	5	25	S9GX10BH-S

All dimensions in mm

(1) The values shown in brackets relate to ratios of 20:1 or higher

(2) Extension, decimal gearbox

Type code

Motor and gearbox

Motor	SG	9	I	1 5	G	T	H	-	T	A
										A: Pinion to fit S Series Gearbox
	6:60			6: 6W						
	8:80			15: 15W						E: Brake motor
	9:90			25: 25W						T: Terminal box type
				40: 40W						
				60: 60W						
				90: 90W*						
SG Series										H: Heat treated pinion (40-90W)
			I: Induction Motor							
										A: 1Φ 100-115V
										B: 1Φ 200-230V
										T: 3Φ 200-230V
										S: 3Φ 380-440V
										G: Gear shaft (pinion)
										S: Straight shaft
										D: D-Cut shaft
										K: Keyed shaft (25W & above)

Intermediate gearbox/ Decimal gearbox (additional data for speeds of 7.5 rpm or lower)	S 9 G X 1 0 B H - S	S: 60W & 90W only
	S: Helical 6: □60 7: □70 8: □80 9: □90	Blank 6W-25W H: 40W-90W

Type code

Geared motor module

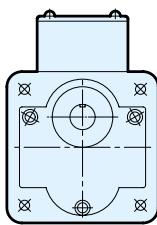
SPG	SG	0 9 0	I G B	5 0 0	0	C S	T	1
Motor Power:				Nominal Speed:			Mounting Position:	
006 015 025				500.0 300.0 200.0			1	
040 060 090				150.0 100.0 075.0			2	
				060.0 050.0 030.0			3	
				020.0 015.0 012.5			4	
				010.0 008.3 007.5				
				006.0 005.0 003.0				
				002.0 001.5 001.3				
				001.0 000.8				
Motor Type:							Design:	
IGB 1ph 230V							T: Terminal Box*	
IGT 3ph 230V							E: Braked	
IGS 3ph 400V								*not available on brake motor
							Gearbox Type	
							A: Square (6-25W)	
							B: 40W	
							C: 60-90W square (std torque)	
							D: 60-90W (high torque)	
							CS: 60-90W flanged (std torque)	

Mounting position: electrical connection

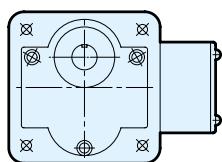
The geared motor is shown from the front in the drawings.

If nothing is specified in the purchase order, mounting position 1 will be delivered.

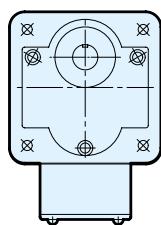
1



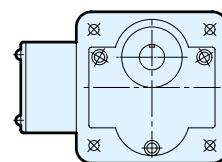
2



3

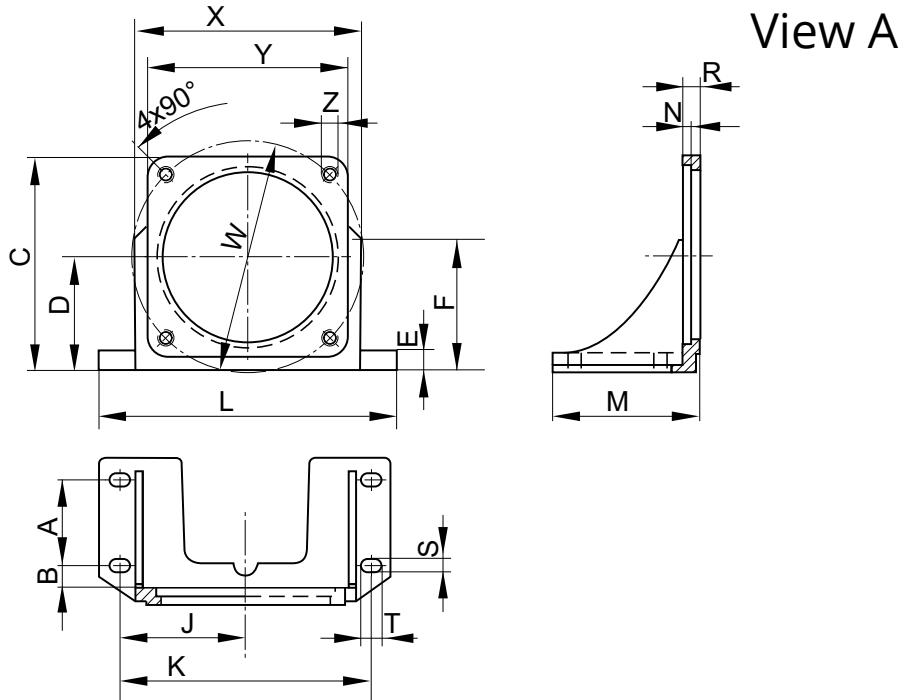


4



Accessories

Feet options



Side fixing feet																		
	angle type	A	B	C	D	H	J	K	L	M	N	R	S	T	W	X	Y	Z
6 W	SPL-6A	25	9			8	41	82	100	50	3	6	4.5	7.5	70	68	61	M4
15 W	SPL-7A	30	9	78.5	43	8	46	92	110	55	3	7	4.5	7.5	82	78	71	M5
25 W	SPL-8A	35	9	88.5	48	9	56	102	120	60	3	7	5.5	8.5	94	90	81	M5
40-90 W	SPL-9A	40	9	98.5	53	9	56	112	130	65	3	8	6.5	9.5	104	100	91	M6
60-90W (std)	SPL-9SA	40	8	112	66	9	64	128	146	65	3	9	6.5	9.5	104	112	92	M6
60-90W (H/T)	SPL-9SB	40	8	112	66	9	64	128	146	65	3	9	6.5	9.5	104	112	92	M8

All dimensions in mm

Accessories

Couplings

General information

Couplings usually connect the drive and output end and allow the transmission of torque whilst simultaneously compensating for any misalignment.

Functions of couplings

Couplings may have different tasks and assume different functions depending on their type and design. The main functions of couplings are:

- Connect the drive end and output end (e.g. two shafts)
- Transmit torque (i.e. drive power at a certain speed)
- Compensate for shaft misalignments
- Damp vibrations
- Fast installation
- Reduction of restoring forces
- Protect the drive train

Types of couplings

One can differentiate between four main categories of coupling.



For applications with our SPG SG Series geared motors, torsionally flexible couplings are normally used. We will be pleased to dimension the ideal coupling for your application.

Accessories

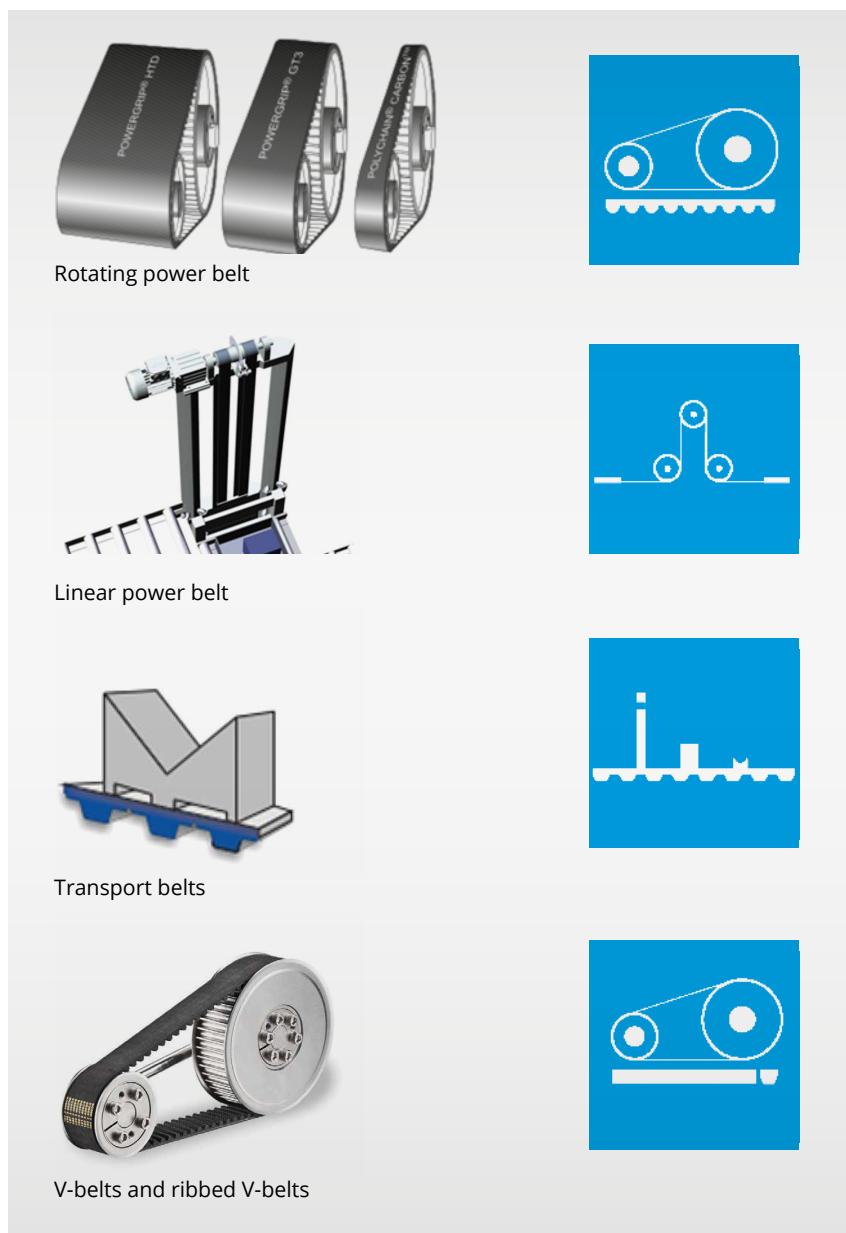
Belts

General information

A high degree of cost-effectiveness, maintenance-free nature and low-noise running - there are many good reasons to opt for a belt drive.

Toothed belt drives ensure a positive-fit, absolutely synchronous and slip-free power transmission. The efficiency is around 98%. V-ribbed belt drives transmit the force/torque with an efficiency of around 95% in a frictionally engaged fashion.

Different belts with different tension members are used depending on the type of application, the power to be transmitted and the ambient conditions. Our application technicians provide professional support when it comes to selecting and dimensioning the best belt drive for your machine.



Types of belts

Accessories

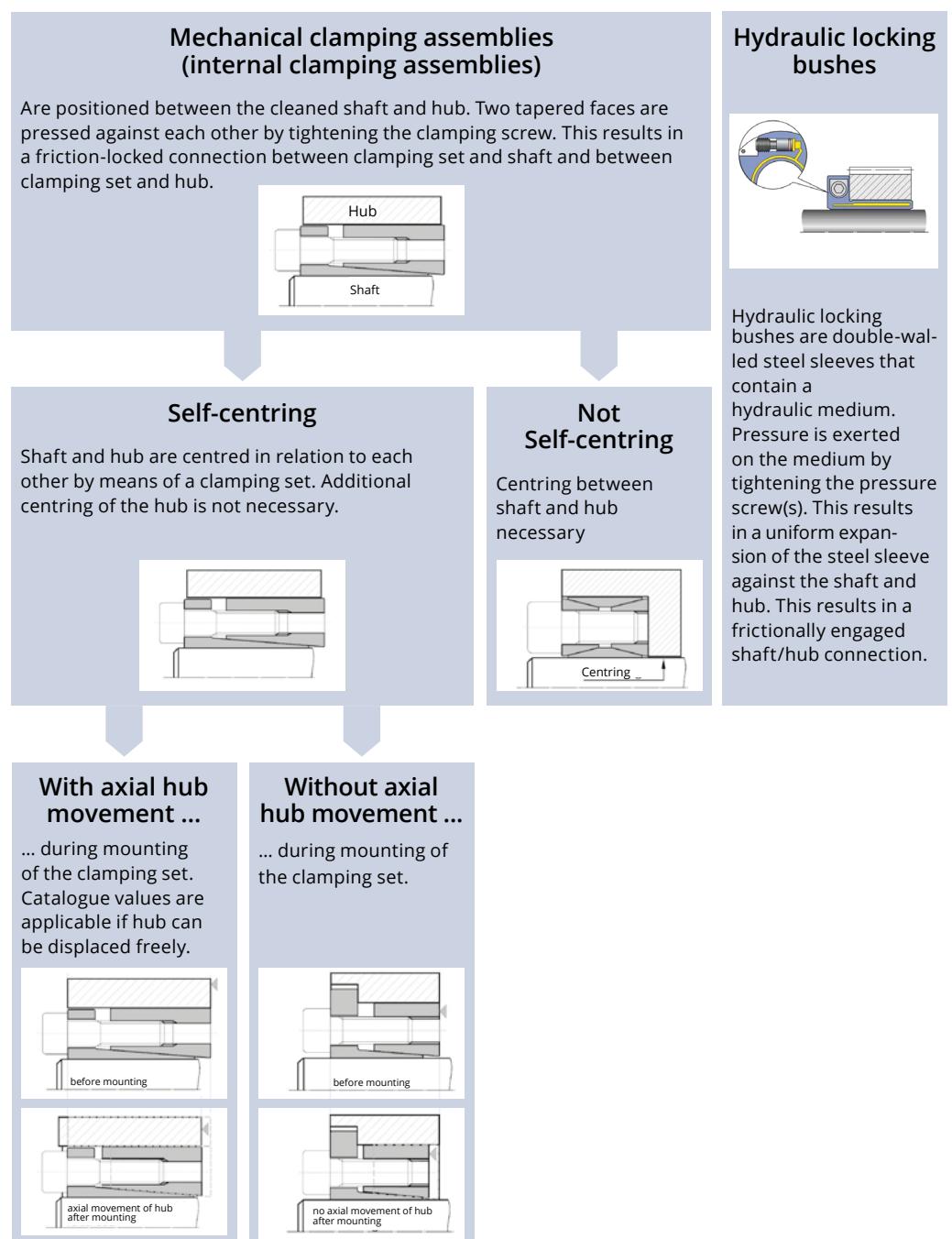
Locking assemblies

General information

Locking assemblies (mechanical clamping assemblies, hydraulic locking bushes) are used for the force-fit/friction-fit and backlash-free transmission of torque and axial forces between shafts and hubs. Increases in productivity and reductions in set-up times and standstills are two important factors today. The choice of the correct shaft-hub connection is thus crucial.

Details and more information about mechanical locking elements are available on our website at:

www.lenze-selection.com



Lenze

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